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February 22, 1912.



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It is desirable to mention the name of th is publication when writing to advertisen



#### WHERE A LARGE SUM OF HARD EARNED MONEY IS LOST EACH YEAR

WILEKC A LAKUE SOM OF HARD CARNED MONET IS LOSI EACH TEAK It has been estimated that on many farms of one hundred acres the loss due to unnecessary depreciation in the value of farm implements amounts to between 8100 and 8200. Scenes such as the one illustrated by our cartoonist were once more common than they are now but there is still too much indifference among some of our farmers to the proper housing of expensive farm implements. The loss in one year would pay for the erection of a good shed. With so much money locked up in farm implements we cannot afford not to have one. "A penny saved is a penny gained." The gain through housing implements, however, is not measured in pennies but in dollars—in some cases hundreds of dollars.

#### DAIRYING THE MOST PROGRESSIVE BRANCH OF LIVE STOCK INDUSTRY

#### A Serious Shortage of Beef Cattle in Canada Reported at the National Live Stock Convention—Sheep Declining—Swine Just Holding Their Own—But Dairying is on the Increase.

CARADA, with its vast areas of agricultural laids and a population largely engaged in agricultural pursuits, is rapidly becoming an importing rather than an exporting country so far as meak products are concerned. In almost every province of the Dominion the production of beef cattle, sheep and awine is either standing still or actually declining. In no province is production increasing at the same rate as consumption. Such was the non-what gloomy could the National dive Stock Convention held at Ottawa on Monday and Tuesday of last week. Practically corry live stock organization in Canada and every polynee was represented at the Convention. The conclusion reached by this representative body of men may therefore be taken as a true portrayal of conditions as they exist in the live stock industry. All delegates were agreed that rigorous action will be necessary to put the live stock industry on a basis commensurate with its importance, or even to ave it from further decline.

save it from further decline. One of the greatest evils that is sure to accompany a decline in the live stock industry is the loss of soil fertility. Speaker after speaker at this Convention pointed out the absolute necessity of live stock on the farm if fertility is to be maintained. Mon from every province told of the system of farming being earried on that is resulting in a steady impoverishment of the soil. Dr. J. G. Rutherford, Dominion Live Stock Commissioner, called attention to the enormous waste of animal food in Canada. The pasture grass never made use of and the thousands of tons of straw that are burned each year might all be manufactured into animal products. "People will be wonderd years hence what we were thinking about when we permitted such an enormous waste."

There are, however, a few bright

CANADA, with its vast areas of features in the live stock situation. agricultural land and a population largely engaged in agricult. The percentage of pure bred live tural pursuits, is rapidly tecoming an atock is increasing. The most hopimporting rather than an exporting ful feature of all is the steady procountry so far as meat products are grees that is being made by the dairy concerned. It almost every province industry.

More dairying, as many of the speakers testified, means a retrring to keen from if and the product of the acceleration of the second second second acceleration of the second second second the second second second second second other branch of live stock farming. In his address on "The Dairy Industry of Canada," Mr. W. F. Stephen, of Huntingdon, Que, pointed out that in 1901 there were in Canada 2,292,120 milch cows and in 1910 the number was 2,005,002. When the figures for 1911 are available he predicted that they would show 3,000,000 milch cows in Canada. In Ontaris the number of milch cows had increased 32 per cent in the last 10 years; in Quebec, 18 per cent, and in the nower western provinces the increase varied from 100 per cent to 150 per cent. Only in Prince Edward Island has there been a decrease, and there the number had dropped fire per cent. In four years be value of the dairy output of the country had increased Sig. 500,000.

stow IMPROVEMENT IN GUALTY Mr. Stephen admitted that the improvement in the quality of the catile was not as great as might be desired. The average annual production of cows in 1000 had been 3,000 Hz. of milk, and at the present time it in not over 3,500 Hs. This poor shoing he attributed to wrong methods of breeding and feeding. The signs of the times, however, point to improve ment. All of or breeding the provide the times, however, point to improve ment. All of or breeding report. There is an increased number of registrations of pure bred dairy catile and the cow testing movement is extending itself to all parts of the courtry. Strong testimony to the value of

(Continued on page 8)

Issue Each W

Vol. XXX

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Cheap Cane S

O<sup>N beha</sup>ducer Farm

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FOR WEEK ENDING FEBRUARY 22, 1912

No 8

#### BETTER PROTECTION NEEDED AGAINST SALE OF ADULTERATED MAPLE PRODUCTS John H. Grimm, Montreal, P.Q.

#### Cheap Cane Syrup Sold as the Product of the Maple. A Loss to Both Producers and Consumers of Maple Syrup. A Simple Remedy Proposed

N behalf of the maple syrup and sugar producers of Canada, I wish to lay before Farm and Dairy readers a matter of great importance as to the law existing regarding the adulteration of maple syrup and maple sugar.

There are about 55,000 growers of maple products in Canada; and of all the agricultural products of Canada there is none other so characteristically Canadian, none other that brings such a large and constant return, with so little expenditure of labor, so small an investment of capital, and so little impoverishment of the soil. To the average intelligent maple grower, the

annual revenue from the sap is practically so much "found money." This most profitable industry has in recent years been threatened with extinction, not from natural causes, from failure of the crop, from foreign competition, nor from falling off in the demand, but purely and simply through the failure of the Dominion Parliament to adequately protect the honest grower of maple products from fraudulent competition, and to protect the public against misrepresentation and adulteration.

LEGISLATION WANTED

Over 15,000 of the 55,000 maple syrup and maple sugar producers have signed a petition to the Government, asking for legislative and administrative action to save the industry from extinction. We are convinced that every one of the 55,000 would gladly sign the petition if it

were possible to give them an opportunity. The interest of the consumer in this connection is precisely identical with that of the producer; the only interests opposed are those of the

few manufacturers engaged in the production of adulterated maple products.

While there can be no objection to the sale of cane or other syrup compounds which are not injurious to health, they should be sold for exactly what they are; and to allow them to be sold as the much-more-expensive product of the maple trees is a fraud upon the consumer, and a great discouragement to the Canadian farmers, who are supplying the market with genuine maple syrup and sugar.

#### THEY CALL IT MAPLE SYRUP

The market is now flooded with pretended maple syrups, many of which contain absolutely no sap of the maple tree, and others consist of a mixture containing a little of the poorest black maple syrup, and a great deal of cane sugar and other cheaper compounds, and labelled in such a manner as to mislead the public into the belief that they are pure maple syrups; or what means

the same thing to the average buyer, "maple compounds and maple flavors." The extent to which these mixtures are taking the place of the genuine product of the maple tree may be gathered from the number of flavoring mixtures freely advertised and sold for no other possible purpose than to make molasses and other cheap syrups taste something like maple syrup. NOT MAPLE SYRUP AT ALL

Now, a gallon of molasses with an ounce of maple flavoring or essence in it is not maple syrup. It is molasses, and should be sold as mo-



South Western Ontario is Admirably Adapted to Corn Growing

The natural adaptability of worth western Outario to the production of high class seed corn was strongy emphasized by the splendid exhibits at the corn show held at Tilbury recently. The attinuitive exhibit of the Romney Farmers' Club, Kent Co., Ont., here shown, was one of the features of the Fair.

lasses, at the price of molasses, plus flavoring. People who are persuaded to buy this concoction under the impression that it is map'e syrup are simply swindled. To allow the mixture to be sold under any name, "maple compound or maple flavor" that may lead the purchaser to believe that he is buying a maple tree product, is misleading to the public, and to sanction a gross injustice upon the Canadian farmer who honestly places the genuine article upon the market.

#### PROHIBIT FREE USE OF WORD "MAPLE"

The conspicuous use of the word "maple" or any of its derivatives such as maple flavor on cans of "compound," should be prohibited; and the use of any of these words on cans containing syrups wholly, or la.gely composed of substitutes, should be forbidden in any shape or form. If anylody wants to buy and cat cane or beet sugar or molasses, at the price of maple sugar or syrup, by all means let him do it; but do not

allow anyone to swindle him by selling him the inferior and cheaper product under false pretence that it is the better and more expensive one

For example, 10 samples of maple syrup were recently purchased by a friend of mine in two western towns. Six of these were labelled "pure maple," two "maple compound" and two "maple flavors." One of the six sold as pure contained no genuine maple, while the others contained very little maple. My friend writes that out of 18 grocers visited, about one-third produced the compound when asked for maple syrup. One grocer in Saskatoon insisted on calling a can of mixture pure, even after I called his attention to the label on the can. To put the case as it is here, if a grocer has both the pure and the compound, he will explain to his customers when

they ask for maple syrup that he has the pure and the compound, and offer them their choice. On the other hand, if a grocer has only the compound, as is the case with many, he gives out the compound to customers asking for maple syrup without any explanation as to its contents.

HIGH PRICES FOR TRASH

There appears to be very little distinction made in regard to price between syrups sold as pure and those sold as compound or maple flavor. The cans varied considerably in size, but reducing them all to the price per gal'on, the six samples sold as pure average \$2.50, the two sold as comround \$1.96, and the two sold as maple flavor \$2.37. I think you will agree with me that this indicates a very unsatisfactory condition in the western trade.

The maple flavor stuff brings within 13 cents of the price of the pure. The compounds, which contain a portion of maple, even if it be but a very small one, sells on an average at \$1.96 -or 41c per gallon less than the fla-

vored goods that never saw a maple tree. This goes to show that while the ordinary man who understands English may know the meaning of the word flavor, he is not sufficiently conversant with the process of manufacture to be able to tell whether he is paying too much for his goods or not, or whether he is buying an article which is misrepresented.

#### WHAT SHOULD BE DONE

The new standard for maple syrup and sugar, as proclaimed at Ottawa recently, makes maple syrup illegal when containing more than 35 per cent. of water, and maple sugar 10 per cent. of water. This is by far the best work done by the Department at Ottawa, as it necessitates the maple producer to make a quality of syrup that has a more keeping quality, but this new standard fails to provide for protection to the producer as well as to the consumer against adulteration. What is required is an amendment to the Adulteration Act, making it illegal to use

## HOW THE CITY LAND HOLDER TAXES US FARMERS

#### ARTICLE No. II

Last week we illustrated the power that, under certain conditions, is involved in the ownership of land. We showed that while 100 men by their productive labor, were creating \$100,000 of wealth, another 10 men by owning the land on which the 100 worked, might have the power to take \$75,000 of that wealth from them. Power, exactly the same as that held by the 10 men. is possessed by those men who own the land in our cities.

#### THE FORCES THAT CREATE CITIES

In these modern days large cities are a necessity. We farmers ship to them the overplus products of our farms. Because of their central location, and of the railway facilities which cities possess, large business concerns find it necessary to be located in them. Abattoirs are established there to slaughter our live stock and resell the meat thus obtained. Mills are located there to grind our grain. Wholesale commission firms operate there in order that they may handle our eggs and butter, our poultry and cheese, to the best advantage. Dealers send out from there their agents to buy our apples and hay and the various other products which we produce. This, however, is only part of the tale. Other firms find it necessary to be located there in order that they may the more readily manufacture those things that we require. Those concerns, great and small, which manufacture our harrows and plows, the boots and clothes we wear, the furniture we use, the books we read, the medicine we must have, the shingles that cover our roofs, the wire fences that protect our fields, are located there. These concerns employ thousands and scores of thousands of people. These people in turn create a new demand. In order that their wants may be met, grocery and butcher stores, and shops in which all manner of goods are retailed, spring into existence. A demand is established for the services of doctors, lawyers, ministers, engineers and professional and business men of all classes. It is thus that our modern cities are developed. But, as they develop new conditions are created. Because of the great congestion of people which results, where thous ands are forced to live huddled together, the land becomes tremendously valuable. Where it may be worth \$1,000 an acre on the outskirts of a city, its value increases as the business centers are reached. until it becomes worth in the heart of a city like Toronto or Montreal, \$2,000,000 and \$4,000,000, and even \$6.000.000 an acre.

#### THE INFLUENCE THAT MAKES LAND VALUABLE

What makes this land so valuable? It is the fact that the men who own it have the same power to tax the rest of the community that the 10 men on the Island possess. Let us illustrate. Suppose a man owns a quarter of an acre of land in the business section of Toronto. On it he erects an office building, like the Temple Building or the Traders' Bank. Because he is able to charge high rentals for the hundreds of offices it contains, his guarter of an acre of ground may return him in rentals \$50.-000 to \$150,000 a year. Thus, like the 10 men on the Island, he need never work. He can, if he choose, appoint an agent to collect his rents for him while he lives in idleness or travels in his automobile or private yacht around the world. But that is not all he earns. Year by year, as the population of the city grows, his land increases in value. During the past two years a sixth of an acre of land on the corner of King and Yonge streets, Toronto, increased in value from \$504,000 to \$800,000, at which figure it was recently sold. The increase in value in this case in less than two years was \$296,-000, or at the rate of \$1,576,000 an acre. Thus a person owning such a piece of land need do nothing but take it casy while he rapidly becomes a millionaire. And as his land increases in value he increases the rents he charges. Thus year by year his income swells in volume.

#### HOW WE FARMERS HELP PAY THE BILLS

But, you ask, how does that affect us farmers? The answer is simple. It affects us grievously for the hundreds of thousands, yes millions of dollars these city land holders get every year in rentals, is taken out of us and the common people in the city, in a hundred different ways. This is how it is done. Let us suppose that 10 pieces of land in a city are occupied respectively by a produce merchant handling butter and eggs, a miller, a manufacturer of agricultural implements, a manufacturer of fencing material, a manufacturer of clothes, a butcher, a grocer, a doctor, a lawyer and a merchant. Let us suppose that these 10 men pay from \$1,000 to \$10,000 a year rental each or a total of \$50,000 a year. This supposition is not unreasonable. Year by year, as the population of the surrounding country, and of the city increases, the business these men do increases in proportion. Their landlords notice this. Like the 10 men on the Island they decide that the time has come for them to advance their rents. They advance them a total of \$10,000 a year. What happens? The produce merchant and the miller immediately strive to buy our butter, eggs and grain from us farmers for a little less, if possible, than they paid before, and they charge the grocers, the butchers, and the flour and feed men in the cities more for the butter, eggs and grain that they sell to them. The other manufacturers add a few cents or a dollar or so more to the cost of the agricultural implements. fencing material and clothes that they soil us. The butcher and the grocer charge the city consumer a little more for the butter, eggs and meat that they sell to them. The doctor and the lawyer advance their fees. The merchant increases his prices. Thus the public at large, including us farmers, as well as the working classes in the cities, help these middlemen to pay their increased rentals so that in turn they may enable the city landlords to swell their fortunes at the expense of all of us. This explains in part, also, why we farmers receive so little for our farm produce when the city consumer pays so much for it, and why some men become millionaires as though by magic while most of the rest of us work hard, it may be all our lives, and have little to show for our labor. Again, we ask, is it not time that we farmers (in Ontario especially) began to do our own thinking in regard to these matters? Is it not time that we backed up our farmers' organizations, which among other things are working to have land taxed according to its value, so that these city land lords, through the increased taxes they would have to pay, would pay back to the community at large the wealth which the community at large creates, but which they now appropriate? How long are we going to be content to be hewers of wood and drawers of water?

#### (Continued from page 3)

the word "Maple" or any of its derivatives on the labels of any package of maple syrup, unless the same be guaranteed absolutely pure, and not a mixture containing compounds or foreign sugars.

We would request every maple syrup and

sugar maker who reads this article to make it his business, in his own interest, to draw the attention of the Member of Parliament of his county to the situation, and persuade him to use his energetic endeavors to have the law amended, and thus protect both maker and consumer from the adulterator.

#### February 22, 1012.

#### Timely Suggestions About Horses Jas. Armstrong, Wellington Co., Ont.

We are starting already to get our horses ready for next spring's work. In fact, we started as soon as we put them in the stable last fall, but we are taking a little extra preparations just now. We do not expect our horses to stand in the stable from now to spring and then go on the land and do a good day's work. We are keep ing them fairly busy hauling in wood, taking chop to the mill, etc., and if all kinds of work play out, we will just hitch them to a double sleigh and take the family for a drive. In all of my years with work horses I have never found a better method of getting ready for a spring's work than by starting to give lots of exercise in February and keeping it right to the first day's plowing.

We have another good reason too for adding to the exercise of our horses. By the time the horse has spent several months taking it easy in the stable with only light exercise it is beginning to acquire a few bad tricks. Additional exercise is all that is necessary to right this. I believe that cribbing, kicking and biting and much other viciousness is first learned by idle horses in need of exercise

A point we horsemen should pay part lar at. tention to just now is the matter of any, clean bedding. Damp footing is the most prolific cause of cracked heels and thrush.

Many of us make the mistake of believing that when a horse is not working and the weather is cold the horse does not need grooming. The horse may not need grooming as frequently nor as carefully as during the warm season, but it needs it nevertheless, and our horses get a rub down every day and a good grooming two or three times a week. This is absolutely essential to the best health of the horse. The grooming will of course be reduced where the horses are blanketed regularly, but as our stables are fairly warm, the horses remain without blankets-except when standing outside.

#### The Farmer's Orchard-By a Farmer R. R. Sloan, Huron Co., Ont.

An orchard on the ordinary Ontario farm is one of the most necessary and desirable additions to agricultural life. Many advantages are derived from an orchard, and there are really no disadvantages connected with the rearing of a fairsized plantation of about 10 acres. This size is small enough for a 100-acre farm. Fruit is one of the most desirable articles of consumption. It is therefore most advantageous for us agriculturists to grow at least enough for home consumption. An orchard adds much to the attractiveness of our rural homes.

The main reason, however, why we should all grow some fruit is that this is one of the most remunerative branches of agriculture. Ten acres of good apple orchard to-day will sell for as much as many 100-acre farms and give as good returns on the investment.

Opinions differ as to the Lest varieties for an orchard; if of apples it is better to stay with the tried sorts, such as Spy, Baldwin, Greening and King, for winter varieties, and for fall apples, the Blenheim, Orange, Duchess and North Star are desirable varieties along with a few trees of earlier ones, such as Transparent, Astrachan and Sweet Bower, for home use only. The plantation should have enough plums, peaches (where they can be grown) and cherries, for the use of the family.

A few growers hold the opinion that spraying can be done when the wind is blowing and get good results. It is useless to spray against the wind.

#### February

#### Practic

Alfrei I have r entions on cent issues from Mr. "Do Com perimented om able to pay, and prove this in Mr. Cot to call atte He state

tons of fert he says : " game three foored each having sper ed with any unless it be I have not myself, but Le applied very slow amount ree 20 ewt. an a

MIXED FI I would course take (apparently) ties warn f purchase of ready mixe that it was : simply groun there could three to fou in a whole t rest must ha filler. Speal acid phospha ash and nitr borhood of \$ would be in what this fe be, and what ic acid, pot was supposed tingham wou ers on these some clue as its use. My own ex

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No. 1-(Check p No. 2-Nitrate o yield No. 3-Nitrate

No. 3--Nitrate , when p No. 6--Portao f No. 6--Portao f No. 6--'Royal C No. 7--Muriate No. 8--Check pl No. 10--Actid pho No. 10--Actid pho No. 10--Actid pho No. 11-Complete Potash No. 12--Complete phate No. 15--(Check pl

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#### Practical Experience with Festilizera

Alfred Hutchinson, Wellington Co., Ont. I have read with interest the various communications on the use of artificial fertilizers in recent issues of Farm and Dairy, especially that from Mr. G. E. Cottingham, under the heading, "Do Commercial Fertilizers Pay?" Having experimented considerably for four or five years. I om able to answer that they most certainly do pay, and pay well. But before attempting to prove this assertion there are one or two points in Mr. Cottingham's letter to which I should like to call attention.

He states that, "Last senson I purchased two tons of fertilizer," etc. Further on in his letter he says : "I have tried the commercial fertilizer game three times now . . I have been foored each time and the last time worst of all, . . \$15." I am not acquainthaving spent. ed with any fertilizer that is sold at \$7.50 a ton, unless it be ground rock phosphate (untreated).

I have not tried any of this material myself, but I understand that it must Le applied the fall before, as it is very slow in its action, and the amount recommended is from 10 to 20 cwt. an acre

MIXED FERTILIZER NOT ADVISABLE

I would also point out that the course taken by Mr. Cottingham is (apparently) the one that all authorities warn farmers not to take-the purchase of a specially prepared or ready mixed fertilizer. Assuming that it was a mixed fertilizer and not simply ground rock, at \$7.50 per ton there could not have been more than three to four cwt. of actual fertilizer in a whole ton of this mixture. The rest must have been composed of some filler. Speaking in round numbers, acid phosphate is worth \$1 and potash and nitrate of soda in the neighborhood of \$3 a cwt. in ton lots. It would be interesting to know just ers on these points, we might have some clue as to why there were no results from its use.

My own experiments with fertilizers have covered considerable ground and embrace carefully measured plots and weighed yields-two years with potatoes, two years with turnins and one year with mangels. Also cruder experiments with fall wheat, rape, millet, mangels, turnips, etc. In the season of 1910 I planted 17 plots of potatoes; 14 of these were manured with various fertilizers or combinations, and the product carefully. weighed; three plots received no fertilizer, being used for checks. Each plot was one-eightieth of an acre, plots were in parallel rows side by side, and results are given in bushels per acre.

#### THE PROOF OF THE PUDDING

No. 1-(Check plot) yielded at rate of 172 bus No. 2-Nitrate of Soda, applied at planting,	an	acre
No. 3-Nitrate of Soda, 15 at planting 14	162%	bus.
when plants appeared Mo. 5-Fotato fertillizer No. 6-"Royal Canadian" (a prepared fertil	190 249 204	bus. bus. bus.
No. 7-Muriate Potash	160 78½	
No. 10-Mixed fertilizer	92 196 170%	bus. bus.
No. 12-Complete fertilizer, omitting nitrate	192	bus.
No. 13-Complete fertilizer, omitting Mur-	1821/2	
no. 14 Complete fertifizer, omitting Phoe.	186%	bus.
No. 15-(Check plot)	117	bus.

No. 16-Acid phosphate 186½ bus Nitrate of soda and muriate of potash were applied at the rate of 160 lbs, an acre, and acid phosphate, 320 lbs. an acre, in all cases except No. 10, in which one-third of these quantities were used. Plots 3 to 10, inclusive, were treated with the material furnished by the Experimental Union, O.A.C., Guelph, and the fertilizers would cost about \$3.50 to \$4 an acre in each case. No. 11 would cost approximately three times this amount, and 12, 13 and 14 just double. The application of acid phosphate cost \$4 an acre. Check plot No. 1 being an outside row, should not be considered, as it had an undue advantage on this account

Looking at Nos. 11, 12, 13 and 14, it will be seen that the omission of nitrate of soda and of muriate of potash made practically no difference to the yield, but that the omission of phosphate reduced the yield to the leve! of the check plot where no fertilizer was used. In fact neither



Commercial Fertilizers made the Difference in this Corn

what this fertilizer was professed to be, and what percentage of phosphor-ic acid, potash and nitrogen there was supposed to be in it. If Mr. Cot-tingham would enlighten your read-

nitrate nor potash gave any returns whatever on this land. Now take plots 9, 11, 12, 13, 16 and 17. On all these phosphate was applied at the rate of 320 lbs. an acre, and the yield averages very close to 190 tons. Plots 14 and 15 received no phosphate and yielded practically 120 bus., showing a net increase of 70 bus. per acre from the use of acid phosphate, at a cost of 6c per bus. for the increased yield.

But you may say, does not barnyard manure do the best of all? Why not use that alone? Because the quantity is limited. We have just so much to work with, and it is necessary to give all our land a moderate dressing at certain intervals. All these plots received a coat of manure, at the rate of 10 to 12 loads an acre, and the fertilizers were extra. It follows, therefore, that plot No. 4 was manured at the rate of 30 to 35 tons an acre, a most extravagant application for a farmer who has no other source of supply than his own stables, and who wishes to cover all his arable land once in five years. For the grower who can get an unlimited quantity of barn manure, or who has no better use for it, it may be the best, although if it is intended to follow the potato crop with grain, it is doubtful economy, as the straw is almost sure to be too rank and go down before maturity.

(Concluded on page 15)

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#### Facts About a Prize Winning Herd

Peter Arbogast & Sons, Perth Co., Ont.

Some 25 years ago we had a herd of cows commonly known as the "Shorthorn milking strain." These cows we pred to a Holstein buli and the heifers from the best cows were kept and Holstein sires have been used ever since. In this manner we bred up to the herd that secured first place in the Dairy Herds Competition conducted by the Dairymen's Association of Western Ontario. We now have over 40 females, all showing excellent dairy qualities. Two bulls are kept in order to avoid inbreeding. Celestia Scott's Mercina is a son of Tidy Abbekerk Mercina Posch, whose seven nearest dams average 26.19 lbs. of butter in seven days. King Segis Walker, whose six nearest dams average over 25 lbs, of butter in seven days is the second. Both animals are fine individuals.

#### RECORD FOR THE MILKING PERIOD

No. of cow	Milk per cow	No of oow	Milk
2		6 7	
4		8	
Total lbs	. of milk	10	

r full . 11,395 milking period Average lbs, of m Average lbs. of milk a cow for six months, May to Oct., 1911 .... 7,972

WATER AND FEEDING

We have no fixed rule to follow in feeding our herd of cows. Our main object is to feed for profit. The feeder must study each cow's likes and dislikes. For instance, we notice that some cows are very fond of alfalfa hay, while others probably prefer clover hay. Water is before the cattle at all times while they are in the stable. We have learned that no cow will do her best unless she has water when she wants it. Our cows always want water after having all they care to eat, and not sooner.

We feed the morning rations between five and six o'clock. Each cow gets from 25 to 30 lbs. of ensilage and one pound of meal to every six pounds of milk that they give. After

this roots are fed, about 30 lbs, to each cow. They are then given what clover hay or alfalfa they will eat up clean. Evening rations are fed about four P.M., the same quantities being given. The meal consisted of oats, Larley, bran and a little wheat. Cows are very fond of a mixed ration, and it also helps to fill the milk can.

#### SUPPLEMENTARY FEEDING

Last year the cows were turned out on pasture on the 20th of May. From then until the first of July we fed no meal or bran. Pastures then became short and dry, and in order to keep up the milk flow we started to feed ensilage and a little meal. This we continued to do until winter set in.

The milking was done regularly each day, and when possible each cow was milked by the same milker. About six years ago we joined the Black Creek Factory Cow Testing Association and since that time we have increased the production per cow each year and expect to increase it to an average of 12,000 lbs. a cow by careful breeding and feeding.

Spray at the right moment-especially for that spraying after the blossoms are well off the trees. Get to work at once. Even a day's delay may be too late .- A. W. Peart, Halton Co., Ont.

#### FARM AND DAIRY



A FINE THING in Your Favor THRASHING A ratio soil something through these columns of same and Usiry is that our advertis will take your message to nearly 1300 umma and get big results at little cost. Bancker, Blew Stanker, Stanker, Blew Stanker, Blew Stanker, Blew Stanker, Blew Stanker, Stanker, Blew Stanker, Stanke ADV. DEPARTMENT FARM & DAIRY . PETERBORD. ONT CHR. I. ZEHR. R.R. No. 5 Tavistock, Ont

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(6)

London Make (Cho) INRASHING London Make (Chail longo, Maxo Melt Johnson Beitzender Stacker, Revart Cutting Box and Chaf Blower. A very litle care will put it in fart class dahap frr good seaaon's work, newship. 800 will take it-s barguin for comcone.

ALDWELL

SUSSES MA

CATTLE HORSES

STILEP MAN

CALDWELL FEED

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UNDAS-ONT.

FARM MANAGEMENT

#### Queries re Fertilizers

What kind of fertilizers would be most profitable for corn and roots? Our soil is sandy and gravelly. Are the chemicals better than the mixed fertilizers?-H. L. P., Brome Co., Que.

It is hard to give a positive answer to the question without knowing more of the exact conditions of soil and previous cropping. A mixture made of the following substances would ans-A mixture made or the following substances would ans-wer very well: Nitrate of soda, 100 lbs. per acre; blood meal, 100 lbs.; upper-phosphate. 400 lbs. The nitrate of soda should be withheld and not mix-ed with the others, and applied sepa-relation for the source of the separately after the corn and roots are up. The so-called chemical fertilizers

may not be better than mixed fertilmay not be better than mixed retri-iers; that depends upon what ma-terials are used in making the mixed fertilizer. The chemicals, such as ni-trate of soda, muriate of potash, etc., are more concentrated, and they are constant in their solubility, so that in constant in their solubility, so that in buying, the purchaser knows exactly what he is getting in both amount and solubility. This is true of the mixed fertilizers in the first respect, but may not be true in the latter. As to how much less of the one can be applied. nuch less of the one can be applied, to definite answer can be given. For instance, 100 lbs. of nitrate of soda will contain over 15 per cent of nitro-gen, whereas in a 4.5-10 fertilizer it would require nearly 400 lbs. of the material to supply the same amount of nitrogen. The potash salts are even more concentrated.

.... Caldwell's **Molasses Meal** Makes More Milk

Give your cows three to five pounds of Molasses Meal daily in place of an equal amount ot ordinary food. Your cows will be healthier and will yield you more profits. Get our booklet explaining why Mol-asses Meal has such wonderful feeding value. Also ask for direct from the mill prices.

Caldwell Feed Co., Ltd. Dundas, Ont.



Ever notice the construction of an old barn? It makes you smile to think of the enormous timbers that were used, and you wonder that the barn did not topple over of its own weight. Ever notice the construction of your own barn? Is it up to the modern standard? Could a neighbor put up a barn that would make yours look years behind the times?

How about your new barn? Have you gone into the matter so fully that ten years from now you will not be sorry you did not use a better form of construction? Will it be lightning proof, freproof, have sufficient ventilation? How much room will you allow for each horse, cow, or sheep? Where is the best place to keep roots? How will you arrange hay and entiling echures so as to allow for easy mixing and feeding?

I No matter how large or small your barn requirements are, no matter for what purpose requirements are, no matter for what purpose you require a barn, you will find full particu-lars (with plans, specifications and minute descriptions) given for that barn in the new book, "How to Build a Barn." This book book, "How to Build a Barn." Ints book is free for the asking. It is right up to the minute, and in addition to plans and specifi-cations, has many new points about barns that will be full of interest for any farmer. will be full of interest for any land Write for it to-day—a post card with you name and address will do—or fill in coupon on Barns

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RANCHES\_ General Contracting Lopply Co., Hallian, N.S., Farry & Co., St. John, N.R., Wu, Grey Sam-Cangdell, Lid, 193 M. Sen, Mark, M. M., 201 M. Freil R., Ostone, Davi, Wu, Grey Sam-Cangdell, Lid, 193 M. Fael R., Metter, M. M. Mark, M. Mett, Co., Elser, Weinstger, F.E. 1, File Heiderser, C. S., Fert William, Out, Call and N. Mett, Co., Lid, 191 Wenty Are, Winalign, Man, Gorman, Chaney & Grideling, Lid, Calery, Adu, Lid, Straward, C. S., Stanson, A. M., D. K. Metter, M. S. Karlan, N. H. Wanserer, R.C. Confered, J. & Astronamo, Alan, D. S. Merstman, 914 Related B., Wanserer, R.C. BRANCHES\_CA

#### February 22, 1912.

The fertilizers may be either drilled in or broadcasted, depending upon the machinery ready for the purpose — Prof. R. Harcourt, O. A. C., Guelph. -----Ont

#### **Better Farming Special**

The Ontario Provincial Depart-ment of Agriculture, in cooperation with the Canadian Pacific Railway, with the Canadian Pacific Railway, will run an agricultural instruction train over the C.P.R. in Ontario between Windsor and Montreal, in-cluding the Goderich and Owen Sound lines, stopping at 52 places, and spending two and one-half hours at each place giving lectures and ex-plaining exhibits.

A staff of from 10 to 15 lecturers and demonstrators will accompany the train throughout the trip. Memthe train throughout the trip. Mem-bers of the regular staff at the Ag-ricultural College, district represen-tatives of the Provincial Department of Agriculture, experienced institute workers and other prominent farmers workers and other prominent farmers, will give instruction. The program to be given at each place will be adapted to the needs and possibilities of the locality. The first hour will be taken up with lectures, and the bal-ance of the time allowed for the in-spection of the four baggage cars con-ting achilitie accessing field buse spection of the four baggage cars con-taining exhibits covering field hus-bandry, live stock, drainage, dairy-ing, beef production, fruit growing, poultry raising, bee keeping, fertil-izers, feeds, concrete work, etc. The train will consist of nine

coaches, four equipped with illustrat-ive and demonstrative material, three to be used for lecturing purposes, and two for the dining and sleeping ac-commodation of the staff and train crew

The work begins February 26 and ends March 16, 1912. Every farmer will find something of interest and lenefit both in the exhibits and lec-tures. Lectures and demonstrations of special interest to women, girls and boys will be provided.

#### Canadian Seed Growers Convene

It was decided at the annual meeting of the Canadian Seed Growers' Arsociation held in Ottawa, that in future there will be only two class-es of seed handled by Association members. "Elite Stock Seed" shall be the term used to designate the seed produced on the seed plots seed. eed with had selected seed. "Regis-tered seed" shall be the seed grown from "Elite Stock Seed." This sim-plification of terms is a good move on the part of the Association.

Another important departure in the work will be that in future all certi-fied seed shall be sealed in bags by some efficial approved by the Associa-tion before the sacks leave the prem-

tion before the sates have ises of the grower. Space does not permit a report of the splendid speeches given at the meeting. Prominent among the meeting. Martin Burrell. meeting. Prominent anong the speakers were Hon. Martin Burrell, Mr. C. C. James and Dr. Jas. W. Robertson, who was so largely in-strumental in the organization of the C.S.G.A. Other speakers who gave instructive addresses were Prof. Klinck Macdonald College, J. H Grisdale, G. H. Clark, Rufus W. Stinson, Boston, Mass., and Dr. C. E. Saunders, Cerealist, C.E.F., Ot-tawa. Dr. Jas. W. Robertson was reelected president and Mr. L. H. Newman. secretary

A whip is a poor thing to inspire frightened horse with a sense of safety.

Kimball's Dairy Farmer says that the farmer who takes the best care of his cows usually knows what each cow is doing, and likewise the farmer who knows what each cow is doing usually gives his cows the best care.

#### February

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#### Best

Please Please give st feeds for Working o such as are fe Clover hay o derate amour and corn and make a suita silage may be since any sup feeds is like effect upon the animals. portionately required from require pras working oxen Any oxen tha beef after the be fatted qui the proportion

#### Grain

Am wintering mares in foal, blood colt. od colt. The but the lig do do but the hig not working ar exercise. In the of clover hay, out straw with marces and three quarts to the shredded corn spring work I a corn and oats, d Would this be t W.N.H., Lam The feed th right for work

right for worl to be recorn mares. As spr ration should ably Oats an feeds for pres rather expensi pounds of oats will give bette oats and it is month or two i mares go on g might be given results. There in each feedin should never h bulky food. The ration

corn and oats mares, and we similar to the lined, the amo they are doing.

#### Report of t

In Great Brit tively insignifi 31,852,777 sheep much greater a 000 head. Fe commissioners minion Governm den and Mr. W investigating in of the United States and Car mation that wi veloping the sh ada. Their rep lished giving th vestigations.

In their repo point out that much territory agriculture, but r the summer after investigat roughly in thre not see why she be in the backw is in Canada.

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The Feeders' Corner a should not remain satisfied until statistics show a return of at least 10 times the number of sheep as given by The Feeders' Cortar is for the use of our subscibers. Any in-tions, or an invited to ask quee All questions will receive prompt attention.

#### Best Feed for Oxen

Best Feed for Oxen Hense the formation at the the the second second second second second Clover hay or good mixed hay, a mo-clover hay or good mixed hay, a mo-clover hay or good mixed hay, a mo-lage may be fed, but in moderation, the second s

#### Grain Food for Marea

Grain Food for Mares Am wittering a span of young havy mares in foal, a driver and two-pear-old blood oolt. The mares have nothing to do but the light farm work, and when not working are turned in the yard for exercise. In the morning we give a feed of elower hay, at noon bright clean out mares and three it quarts of oats to the mares and three it quarts of oats to the mares and three it marts are the the mare and three it marts are the the mares and three it marks the the heredded corn storer. When starting arring work 1 am planning to mix shelled shredded corn stover. Whin starting spring work I am planning to mix shelled corn and oats, one of corn to two of oats. Would this be too strong for the mares?--W. N. H., Lambton Co., Ont. The feed that you are giving is all interest of the start of the start of the start of the start of the feed that you are giving is all

to be recommended for pregnant mares. As spring comes on, the grain ration should be changed consider-ably. Oats and bran are the standard feeds for pregnant mares. Bran is rather expensive just now, but two pounds of oats and one pound of bran will give better results than three of oats and it is cheaper. For the last month or two in the spring before the mares go on grass, a few boiled oats might be given once a day with good results. There should be a little salt in each feeding. Pregnant mares should never be gorged with coarse bullen feed. bulky food.

The ration that you propose of corn and oats is hardly suited to the similar to the one that we have out-lined, the amount fed depending on the size of the mares and the work they are doing.

#### Report of the Sheep Industry

In Great Britain, with its comparathe Insignificant area, there are in the Insignificant area, there are in the Insignificant area in the Insignificant of the Insignificant area in the Insignificant commissioners appointed by the Do-minion Government, Mr. W. A. Dry-den and Ar. W. T. Ritch, have been investigating into the abeep industry of the United Kingdom, the United Natas and Canada to grather infor-States and Canada to gather infor-mation that will be of value in de-veloping the sheep industry in Can-ada. Their report has not been pub-lished giving the results of their investigations.

In their report the commissioners point out that in Canada there is much territory that is not used for agriculture, but is excellently adapted for the summer feeding of sheep, and after investigating the subject the pueble in these converting there are roughly in three countries they can-not see why sheep husbandry should be in the backward condition that it is in Canada. They state that we

times the number of sheep as given by the present estimate. Among the re-commendations made by the commis-sion for the advancement of the sheep industry of Canada are: That the educational facilities offered by the agricultural colleges be made use of to interest students in sheep and

FARM AND DAIRY

to interest summariants be established in various parts of the Dominion; the further distribution in isolated districts of pure bred sheep; cooperative marketing of sheep and lambs; the enactment and rigorous en-means and a low legislation; and that forcement of dog legislation; and that special assistance be offered to the sheep breeders' associations to enable them to forward experimental consignments of wool to British markets.

#### Value of Butter Milk

What is the value of buttermilk a cwt. for feeding purposes at the prevailing prices of mill feeds, and to what clarses of stock can it be fed P-A. C., Brome

Buttermilk is of equal feeding value with skim-milk, provided that no wa-ter has been added to it in the process ter has been added to it in the process of manufacture. The actual value of buttermilk per owt, for feed depends on the amount fed in proportion to the grain used. For hogs if one to three pounds of milk were fed to each pound of meal it would have a value at present of about 35 cts, a evt.; if per pound of meal the value would be 20 cts., or an average value of 28 to 30 ets. a cwt.

The largest use of buttermilk is for The largest use of outcommunities for feeding pigs. It can also be used to good advantage with poultry. Only in the hands of the skilful feeder can buttermilk be used successfully in caifrearing.

A dairy cow is a highly organized beast. She is easily spoiled by rough handling.-A. K. Lunn, Huron Co., Ont



THE HELLER ALLER CO.

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Windsor, Ontario



#### A Good Paying Investment

A Good Paying Investment A BT little carrier will more than east in halt the time taken in cleaning the stahls. With 4: the abardet kind of work into a boy's job. With 4: the abardet kind of work into a boy's job. The barn, so that the amnonia fumes arising out of the manare will not rot the sides and sile of the barn on the barn, so that the sides and sile of the barn in or me the spains of the validies and implements stored animals.

animates to get the manure well away from the barn, and with a FT Litter Carrier is the way to do it. Ood barn equipment makes it easier out out and to keep good hird men. We are making a epocial offer now. Write us and we will be pleased to give you all particulars.

BEATTY BROS. FERGUS, ONT. We also make Hay Carriers and Cow Stalls.

farm is heavier or more disagreeable. It is especially so through the snow in winter and the mud in

## Why not do it with a **BT** Litter Carrier?

One thousand lbs, of manure or four big barrow loads can be taken at one trip and the beauty about it is that a boy can handle it.

With a level overhead steel track to run on, it is easy to push out big loads no matter what condition the yard is in.

After the manure is filled into a BT Carrier it can be windlassed up to dump into a wagon or sleigh and so with one handling it can be taken right to the field.

#### Let us Give You a Price

A Litter Carrier will ab give Tou a Price good harn. When once erected it is practically a perma-track, integrated, for, always running on a good level track, integrated for 50 years. Fill out the coupon and get particulars of our special offer.

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Kine	lly send me free your book on litter carrier av
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	ou need a Hay Track?
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#### FARM AND DAIRY

## 14 to 50 H. P Stationary ounted and Traction WINDMILLS Grind ers, Water Boxes, Steel

**GASOLINE ENGINES** 

Saw Frames, Pumps, Tanks, Etc. GOOLD, SHAPLEY & MUIR CO., LTD Brantford Winningd Caldary

POULTRY YARD Advantages of Day-old Chicks The business of shipping day-old chicks is fast taking the place of sending out eggs for hatching, and will, I believe, in time almost entirely elimi-nate the hatching egg trade. I will nate the hatching egg trade I will draw attention first to the advantages

draw attention first to the advantages obtained by the purchaser. Nature has provided sufficient nourishment for the newly hatched chick for the first 72 hours of its ex-istence, and the very fact of the chicks having to travel a considerable distance is an advantage rather than a detriment, as people who are not a detriment, as people who are not familiar with poultry raising are very apt to start feeding chicks too soon, thus disturbing their very sensitive digestive organs. It is more satisfactory to order a stated number of

\*





It's wise to decide that you need an engine. But don't spoil your good intentions by buying a cheap one. Don't be blinded by a low price or by wild claims. Go slow and be sure. Buy an engine that has proved its worth, from a concern that has proved its integrity. You can't allord to make a mistake—it's much costiler than the price of an engine.

## I H C Gasoline Engines

are in use on thousands of farms throughout the country, running the many tarm machines, such as the cream separator, churn, feed grinder, pump, fanning mill, thresher, washing machine, electric light plant, etc. They guarantee you reliable power for every requirement at a surpris-



Pump, tanning and the second s

Interfeest Drancen BOUSE. CANADIAN BRANCHES: International Harveoto pary of America at Brandon, Calgary, Edmonton ton, Lethbridge, London. Montreal, North Bat Ottawa, Regina, Saskatoon, St. John, Weybura, peg. Yorkton.

INTERNATIONAL HARVESTER COMPANY OF AMERICA CHICAGO (Incorporated) USA

# or an incubator, when, unress they have had a reasonable amount of ex-perience, the results are very apt to be disappointing. The prices for day-old chicks are very little in advance of those for eggs, and this alone

vance of those for eggs, and this mone would recommend them very strong-ly to the intending purchaser. The day-old chick Lusiness likewise has its advantages for the vendor. We take it for granted that the hatcher has the necessary equipment and in-cubator space for a considerable number of eggs. The fact that he is in a position to start his eggs when they are absolutely fresh goes a long towards giving him a better hatch than if the eggs have to be shipped by express and encounter a certain amount of rough handling before be-ing set. Then too the eggs may reach their destination in good shape, but through being set under an indiffer-ent clucker or in an incubator not thobut roughly understood by the operator, a poor hatch may result; the blame invariably falls on the vendor and im-mediately leads to more or less strained relations between him and his cus tomer, which is a thing to be avoid-ed if possible. And the most practicalle way to avoid trouble with one's customers, I have found, is to ship them the chickens instead of the eggs.

## A few Don'ts for Duckmen Don't spend all your money in buy-ing eggs or breeders. Save enough for feed and buildings.

Don't overfeed at any time. Don't let young ducks get wet, but we them all the water they can drink

drink. Don't frighten your Runners or chase them around the yards. Don't change your feed on laying ducks if they lay well a whole season.

Don't mate more than six ducks to drake

Don't keep your duck eggs four to x weeks and think they will hatch well

The above are a few of the don'ts that L. D. Yoder gives in his booklet called Indian Runner duck culture.

It is not necessary to provide nests for ducks. They will not lay in them it you do. They prefer to scoop out a nest in the litter.

#### Dairying the Most Progressive

(Continued from page 2) live stock farming in maintaini Ive stock farming in maintaining crop yields was given by Prof. M. Cumming, of Nova Scotia. Last sea-son was a period of drought, and it was a matter of universal comment in that province that while on farms crops were almost a f most failure live stock farmers had crops that were up to the average.

Mr. J. H. Grisdale, Director of Experimental Farms, summarized the Experimental Farms, summarized the live stock situation in Ontario. "The hunting ground of the rest of the live stock men of Canada," as he charac-terized the province. He believed that the live stock industry in Ontario was in a healthy condition. The horse industry is making particular progress. In the past 10 years the number of horses had increased 17 per number of horses had increased 17 per cent and the average price 80 per cent. Beef cattle are just about holding their own. Dairy cattle are increasing in number and their value has doubled in a decade. Sheep are declining and awine are holding their own. In pure tred cattle, Ontario her made process in number of anihas made progress in number of ani-mals, number of breeders and in prices obtained "Saskatchewan," said P. M. Bredt,

#### February 22, 1912.

chicks and receive them practically at the moment you desire, than to pur-vince, "is looked on as the great chase eggs, which one has to get at wheat province. We must have a big loast three weeks sooner, and then live stock industry to keep up that have the trouble and expense of either wheat and maintain soil fertility." caring for one or more clucking hems Mr. Bredt pointed out that while or an inclustor, when, unless they the amount of live atok in Saskatche "is looked on as the great We must have a big wan had doubled and trebled in the last five years, the industry had not progressed to the same extent as had the growing of wheat.

B.C. AN IMPORTER OF PRODUCE Dr. S. F. Tolmie, of British Colum bia, predicted that his province would be a consumer of agricultural produce rather than a producer for many years to come. Pure bred stock ar many making progress, dairy cattle. Th particularly This speaker strongly advocated that an experimental farm should be established in the range country to experiment with forage (Continued on page 11)

**Exhaustion of Soil Fertility** 

Extract from "Artificial Fertilizers, Their Nature and Use," by B. Leslie Emslie, C.D.A. (Glas.), P.A.S.I., F.C.S.

"The fact remains that resource must be had to artificial fertilizers in the requirements of fertility are to be satisfied, and the sooner a farmer be-comes cognisant of this, the less trouble will he have in restoring a

"Last fall the writer happened to be discussing the fertilizer question With a farmer, who owns a farm of a very light, sandy-loam character, when the latter made the remark that if it were not for artificial fertilizers, of which he uses large quantities an-nually, his land would not be worth farming.

"The same day, in conversation with another farmer, he happened to nquire whether the farmer used arti-icial fertilizers, to which question he latter replied to the effect that there was too little money to be made at farming to warrant its expenditure for fertilizers. Here are two different opinions, the one made by a man who opinions, the one made by a man who had used fertilizers and proved their value, and the other by a man who knew nothing of the benefits to be derived from a judicious use of fer-tilizers, and who at the same time made the statement that farming was unprofitable."

Free copies of this and other bulle tins, dealing with the important sub tins, dealing with the important sub-ject of Fertilizing, may be obtained by application to GERMAN POTASH SYNDICATE, 1102-06-06 Temple Bldg., Toronto, Ont.



February .....

#### HOR 200000000 Dominior Far-reachin

third ruit growers Patrick's Ha 16th. The c ture, Honora ture, delegat from all the p The various

with optimisn al spirit that delegate with the conv growers of 1 ve of a wone

confidence in EGGS

Ship your Fresh Da PROMP

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## NEWVE

The best and m Bots and oti (Guaranteed by edy Co., under t Act, June 30, 190 guaranteed to b body dead in fre worms and bota. It is absolutely

n. It is absolutely en to mares in month. Practic written us New between 500 an from a single h stomach is full or help being c der to-day. Bewu 6 capsules, \$

Farmers' Horse 592 - 7th St.,

FOR SALE AN

TWO CENTS A W BARRED PLYMO cockerels and i erate prices. S Loslie Kerns, Fr

WANTED-First Re Creamery. Re months' run gu salary, to The Co., Annaheim,

POR SALE-Iron Rails, Chain W etc., all sizes, vo stating what y Waste and Meta street, Multrani



February 22, 1012.

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#### HORTICULTURE

#### **Dominion Fruit Conference**

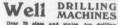
Far-reaching results should attend third Dominion conference of the third Dominion conference or fruit growers that was held in St. Patrick's Hall, Ottawa, Feb. 14th to 16th. The conference was called by the Dominion Minister of Agricul-ture, Honorable Martin Burrell. It is the statementation in nature, delegates being in attendance from all the provinces of Canada. The various meetings were buoyant

with optimism and breathed a national spirit that was very apparent. Ev-ery delegate present was charged was charged with the conviction that the fruit growers of his province are on the eve of a wonderful development. The confidence in the future of the in-

## EGGS & BUT Ship your New Laid Eggs and Fresh Dairy Butter to us.

PROMPT RETURNS EGG CASES SUPPLIED Established 1954





Over 70 sizes and styles, for drilling either deep or shallow wells in any kind of soil or rock. Mounted on wheels or on alls. With engines or horse powers, strong, simple and durabs. Any mech-nais can operate them easily. dend for outlong WILLIAMS BROK, ITERACA, N.T.

#### NEWVERMIFUGE

The best and most effective remedy for forth and other worms in horses. (Can Bots and other worms in horses. (Can Bots and other worms) forces Mem-dy Co. unto the Farman Ko. Mid71). It is guaranteed to kill and bring from the body dead in from 18 to 84 hours all pin worms and bots. ely harmless and can b

It is absolutely harmless and can be giv-en to marse in foal before the sight month. Practical horse owners have written us Newvernituge has removed between 500 and 500 bots and worms from a single horse. An animal whose stomach is full of worms earned see fat our tool being obtainats, Sand your or tool being obtained with the sand your or tool being obtained with the sand your of tool being obtained with the sand your of the sand the sa

Farmers' Horse Remedy Co., Dept. A.8 592 - 7th St., Milwaukee, Wisconsin,

FOR SALE AND WANT ADVERTISING

TWO CENTS A WORD, CASH WITH ORDER BARRED PLYMOUTH ROCKS-High grade cockerels and pullets for sale at mod-erate prices. Satisfaction guaranteed.-Loslie Kerns, Freeman, Ont.

WANTED-First Glass Buttermaker, for Creamery. References required. Bix months' run guaranteed. Apply stating salary, to The Saskatchewan Oreamery Co., Annaheim, Sask.

OR SALE-Iron pipe, Pulleys, Beiting, Balls, Chain Wire Fencing, Iron Posts, etc., all sizes, very cheap. Bend for list, stating what you want. The Imperial Wasts and Metal Co., Dept. F.D., Queen street, Mutreal.

a commis

ion during the shipping season. The Minister of Agricultur

THE NUMBER OF APPLES

The Department of Agriculture was urged to divide the fruit growing provinces into suitable districts with

a permanent and capable fruit in-spector and instructor in each dis-trict so as to insure to the greatest possible extent inspection at the point of shipment.

MINIMUM SIZE FOR APPLES The amendment of Section 321 clauses two and three of the Inspec

packed in barrels may be easy 23.8 as follows: The Famena 23.8 inches for No. 1 and two hos for No. 2; Golden Russets kindred sized varieties, No. 1 inches ; No. 2, 21.8 inches ; Barrins, Spys. packed in barrels may be established

No. 2, 21-5 incnes; in and kindred Greenings, Ribstone and kindred sized varieties, No. 1, 21-2 inches; No. 2, 21-4 inches; Kings, Blenheims,

Wolf River and kindred varieties, No. 1, 2 3-4 inches; No. 2, 21-2 inches.

**Our Front Cover Illustration** 

The names of the officers of the Do-minion Grange, as illustrated on the

front cover of Farm and Dairy this week, are as follows: Front row, left

Lecturer.

tion and Sales Act, was urged

that a minimum size

321

counterpart in the manifestation of a national spirit which led all the delegates to evince a keen desire that the fruit growers of the various prov-inces shall work in harmony with one fered by the promoters. inces shall work in marmony with one another and as far as possible under uniform laws pertaining to the hand-ling and marketing of their fruit

A FINE FRUIT EXHIBIT

A feature of the conference was a splendid display comprising spinning due of the conference was a spinning to the probability of the spin of the 150 Loxes of apples gathered from 150 Loxes of the fruit growing provinces of Canada and including also several Loxes of fruit from the famous Hood River District in Oregon, the State of Washington, and the State of Vir-of Washington, and the State of Virof washington, and the State of vir-ginia. In addition the Dominion Ex-perimental Farm at Ottawa had an excellent exhibit of Fameuse apples and an attractive selection of plate fruit representing various seedlings originated at the Central Experi-mental Farm, Ottawa. The fruit from the different provinces was richand an attractive selection of y colored, high grade in quality and well packed.

A feature of the conference was provided by the attendance of His Royal Highness, the Duke Connaught. Governor-General Connaught, Governor-General of Canada, at one of the afternoon ses-sions and of Right Honorable R. L. Borden, Prime Minister of Canada, at one of the evening sessions, both of whom spoke. Honorable Mr. Bor-The DAVIES Co. wm. DAVIES Co. training of the delegates that it is the intention of the Dominion gor-erament to promote the cause of ag-riculture in every way possible. THE DISCUSSIONS

Owing to the limited time at the disposal of the delegates and the nudisposal of the delegates and the had merous important matters that had to be discussed it was found necessary to conduct much of the business of the conference in committee meettwo conference in committee meet-ings. This permitted much more work being accomplished than would otherwise have been possible. Never-theless there were a considerable number of lively preliminary discus-sions as well as discussions of the committee recent. committee reports, all of which were conducted in the best of good spirit and which were productive of definite beneficial results.

#### THE RESOLUTIONS

The conference resulted in the passing of a number of important resolutions, most of which it is hoped will be crystallized into legislation by the Dominion government. The im-portant resolutions passed and deisions reached included the follow-

ing: To form a National Fruit Growers' Association. Instructions were given to the officers of this association to appoint a transportation committee of three members to look after the interests of the fruit growers with the railway companies and power was given to the committee to appoint an expert transportation agent to investigate claims and railway and express rates and other similar matters.

It was decided to ask the Dominin government to make the stand-ard apple box now used for the ex-port trade the standard box for domestic use also. There being consid-erable difference of opinion as to the most suitable shapes for the other va-rious box packages of fruit it was decided to defer making recommendations concerning these in order that the various fruit growers' organiza-tions may investigate the matter.

The Dominion government was re-quested to issue forms to basket manufacture so as to ensure a uniform size of fruit baskets and to provide two standards for apple barrels, one the 96-quart barrel commonly used in Nova Scotia and the other the 112-quart barrel commonly used in Ontario.

The advisability of holding Nation-al Apple Shows was conceded and the

189



#### BUY BABY CHICKS

Save money, time, worry. Thorough-bred laying strains. They live, they grow, they pay. Safe delivery guaranteed. Cir-culars. Brant Poultry Yards, Brant ford, Ont

Why Not Sell It? Have you any surplus LIVE STOCK for which you want a buyer? Do you want to SELL YOUR PARM? Have you and IN-CUBATOR you wish to EXCHANGE for CASH? A BICYCLE you want to sell? POULTRY for which you



BICTELE you want to sell? POULTRY for which you want a good price? Or EGGS FOR HATCHING to sell? Remember YOU CAN GET next nearly 13,460 POSSIBLE BUYERS of what you have for sale AT A VERY LOW COST by placing your advertise-ment in the columns of Farm and Dairy.

Dary. Our rate is within your reach. We do not discriminate against the smaller advertisers, and WE GIVE YOU FULL ADVANTAGE OF OUR LOW RATE of ONLY IS CENTS PER

INCH. Werte FARM AND DAIRY, PETERBORO, ONTARIO, today, setding in your advertisement, and take this progressive, assistancory way of getting the profitable mar-ket you desire for what you have to sell.



WANTED

Advertising pays. Since I with drew my advertisement, I answered and six inquiries, and in answer to the first two sold my two bulls at a Bald, Sebringville, Ont.



(9)

#### FARM AND DAIRY

#### Holstein Breeders' Doings

At the annual meeting of the Canadi-an Holstein-Friesian Cattle Breeders' Association held in Toronto recently Association held in Toronto recently the report of the sceretary showed that during the year 18 bulls were ad-mitted to the Record of Merit. Threet are now 1,171 cows that have been accepted and 71 bulls. In the Record of Performance 222 cows have been accepted. Some of 1 the Records made have been especially good ones. Lulu Keyes, owned by E, 1 B. Mallory, made 17.28 lbs, fat in 7

Ane

"There is No Building Made Right, If the Roof Is Not Perfect."

Roof is Not Perfect." "Guard a building on too, and you guard the whole building. The weather basts farcest on top. I tell you, no building ever made is better that if you skimp anything. See your roof is right. Your good roof gives three-fold building service. "Why, in 50 years, a little thousand-dollar barn protects \$75,000 worth of hard-harvested pro-duct. A poor roof can easily rot, and waste, the cost of a Pedlar Oshawa Shingle roof. With most roofs lightning may burn all-with my roof you can dely lightning to try its worst on your barn."

"I Make a Roof that Answers Every Roof Demand You Can Think Of."

"My roof has 'give' in it. It can expand in the sun. It can shrink in winter cold. It does this with-out drawing the nails that hold it. It is ice proof. Frozen snow cannot gouge it open. It is clean. Dirt cannot rest on it. Roof water gathered from it is pure. My roof covers its nails. They cannot lossen or rust. My roof is not to heavy or too light - it is

ventilated. "As a result, wind or storms cannot lift it bodily, like a shingle roof. It is spark proof and fire proof. It is lightning proof. It still protects a building if the frame sags. A man can lay it without special tools. He can only lay it right, the right way. Every protection, besides the protection against rust, comes with my roof. You lay my roof on ordinary framing.

Why Do You Get Such a Good Roof

ventilated

from Me ALONE?"

days and 67,50 lbs. in 30 days at vears The number of registrations showed great increase. They were as fol a great increase. lows :

year (non-members) 72

Registrations, animals over 1 year (members) ..... Registrations, animals over 1

year (non-members) .....

2	Registrations, imported cows 5	
	Registrations, imported bulls 2	
d	Import certificates, cows 70	
-	Import certificates, bulls 31	
	Transfers, total for year 5.324	
4	Transfers, for members 3,963	
	Transfers, for non-members 592	
2	Transfers, after 90 days after	
	sale	
1	Registration of farm names 24	
	Total bulls now registered12,936	
6	Total cows now registered 18 961	

 646 Total cows now registered Total bulls now transferred
 97 Total cows now transferred 11 049

15.668



lem—a perfect metal roof. I, only, can make you a roof with the right metal in it to back the wear, be-cause my shingle metal is the only one that make the deal honestly possible."

#### "Can You Lay It, and Lay It Right? Yes!"

"Can You Lay It, and Lay It Right? Yee!" "You, a tinsmith, anybody, can lay any cool-mover can handle a hammer. I spent years in mak-ing my Shingle so it couldn't be laid wrong. There init tan exposed nail, after you are done. The roof is ven-tilated so it is almost cyclone proof. My roof is earth-quake proof, if your building under it is. It is settle-ment proof, sun proof-doged ic cannot open it. "Yee, sir, yoa can lay an entire Pedlar roof your-self in my Oshawa Shingle, while you are patching a few shingles on a leaky cedar roof. When you figure its service, the pice of my roofing is ridue." bill for my roof is kept dovery fair. 'You build for my roof is kept dovery fair. 'You quality at little price.

#### "Every Roof Owner Should Have the Help in My Big Roof Book FREE."

in Mry Big Roof Book FREE."
"My roof book, "Roofing Right," ought to be done of the server minute. I will be glad to serve the server of the server between the server between

#### "Send Me a Post-Card To-day."

"Get my Roofing Right Book to day. A post-card will bring you the whole story of my perfected Oalawa Shingle. As do need on y branches near you. Or write me direct. Remember you better any building three-fold if you put the best roof you can get on it. People on the other aide of the sarth know this. You write use.



February 22, 1912.

During the discussion of the sugpartial that the Association should have its records handled by the Na-tional Records Board, as all the other live stock associations do. J. E. Brethour of Burford, who is acquainted with the workings of the National Records Board, was the National Records Board, was asked to explain the proposal of uniting with that board more fully. He made it clear that should the Association decide to affiliate it would continue to have absolute ontrol of all its records, and that there was nothing to prevent it from stand-ardizing its records with those of ardizing its records with incse or the United States Association should it so desire. All that would be in-volved would be that the records would be handled in Ottawa by trained clerks who would follow the trained clerks who would follow the rules laid down by the Association. The money received would be credited to the Association and deposited in the bank to its account. Mr. Breth-our claimed that all the other associ-ations that are handling their records through the National Record Board are well satisfied.

#### GRANTS TO FAIRS

The following grants to fairs were made :

Toronto, \$300; Sherbrooke, \$150; Calgary, Winnipeg, London, Ottawa, Victoria, New Westminster, \$100 each; St. John, Halifax, Brandon, \$75 each; Regina, Edmonton, Que-bec, \$50 each.

bec. \$50 each. Winter Fairs-Guelph, \$450: Am-herst, \$225 in the way, \$450. This is \$225 more than was given last year. It was decided to rote a special prize of \$50 to any Holstein cow that wins the grand championship over all breeds at any Winter Fair. Grants of \$25 each ware yoted to Sherbrooke, Que, Woodstock, Ont., and Charlottetown, P.E.I., for milk tests. tests.

#### RECORD ANIMALS

The report of the secretary mentioned the following excellent records by Holstein cattle that had been made during the year :

Helbon De Kol, owned by E. Laid-law & Sons, now holds the Canadian record for 7 and 30 days, having pro-duced 25.23 lbs. fat in 7 days and 102.86 lbs. fat in 30 days as a 6-yearold

old. Jenny Bonerges Ormsby made 24.61 lbs. fat in 7 days and 100.35 lbs. in 30 days at 4 years and is the 4-year-old champion. Lady Pietertje Canary is the champion 3-year-old, having is the champion 3-year-old, having produced 21.14 lbs. fat in 7 days and 84.39 lbs. fat in 30 days. She is owned by Mary A. Steves. Canary Queen De Kol, owned by J. M. Steves. made 20.71 lbs. fat in 7 days or 3-mar dd as a 3-year-old.

(Concluded on page 15)

#### Look to Your Roofs

Of all men whose possessions are endangered by the risk of fire, the farmer is usually most lacking in pretection against damage. Insurance rates on farm property are high-though not too high considering the risk, for once a fire gains headway on a farm all the buildings burn, as a rule

Yet there is a cheap and efficient Jet inere is a cheap and efficient way to safeguard against the risk of fire spreading from farm buildings to form buildings; and that safeguard is found by roofing with Preston Safe Lock Shingles. These heavy sheets of galvanized metal protect the build-ing they cover against the possibility ing they cover against the possibility of fire spreading from brands or sparks dropping on the roof; and they also are a sure protection against lightning damage. The Metal Shinlightning damage. The Metal Shin-gle & Siding Company, of Preston. Ont., who make this perfected ror fi give a Guarantee Bond against light-ning damage to buildings so roofed.

#### February 22

#### Dairying, the

(Continu plants, pumpin ing for Alberts of Edmonton, ing was on th horses are now small farmers. ing had had a on the beef cat 1911 cattle we from the east. The live sto

toba was summ manner by Mis cultural editor Press. She t ranching and s for the cattle to lie with the sma If there is an Dominion that

over to dairyin great increase in A. Couture clai great good to t milking Shortho sway in the eas been almost ent shires. Recent has been gain Horse breeding out sheep have Instal

THE PRESH Mr. Robert N occupied the chi address he calle questions of Leef tion problems in terprovincial tra culosis. Hon. M ster of Agricultu told of some of th ing made to as vinces in agricul

SHORTAGE OF Mr. John Gare the fat stock mer ed a great short near future. Fa number of Leef cr was not as good believed that the largely overcome milking qualitie cow. "I believe," best cow for our deep bodied, good ing Shorthorn." lieved that such nore profitable of than either special cattle, and would presented by the s

ply. Mr. E. G. Pal proposed the esta ed meat trade as live stock industr pointed out that part of the Britis lace chilled meat tet without the Palmer believed t build up a large a

trade In connection v dustry, the subject attention was that tion and registrati were unanimous in registration.

TO PROMOTE THE Mr. J. E. Bret said that the swine the assistance of th on a proper basis. buying followed de the breeding of be uneven prices are d the business Mr the business. Mr. that the packers ar after their immedi will lose in the 1 methods of paying show that at the

#### Dairying, the Most Progressive ada will soon not be producing enough (Continued from page 8)

(Continued from page 8) plants, pumping devices, etc. Speak-ing for Alberta, Mr. W. F. Stavens, of Edmonton, said that horse ranch-ing was on the decline, but more horses are now being produced by the small farmers. The decline of ranch-hold here are actions infigures small farmers. The decline of ranch-ing had had a more serious influence on the beef cattle industry, and in 1911 cattle were actually imported from the east. The same was true of op and swine.

The live stock situation in Mani-The HVe slock situation in Mani-toba was summed up in a masterly manner by Miss E. Cora Hind, agri-cultural editor of the Winnipeg Free Press. She traced the deeline in ranching and showed that the hope for the cattle trade of the west must in with the small farmer west must with the small farmer.

If there is any one province in the Dominion that is thoroughly given over to dairying it is Quebec. The great increase in this industry, Dr. J. A. Couture claimed, had resulted in great good to the farmers. The old milking Shorthorn which once held sway in the eastern townships had sway in the eastern townships had been almost entirely replaced by Ayr-shires. Recently the Holstein cow has been gaining ground rapidly. Horse breeding also is progressing, but sheep have been lamentably ne-

THE PRESIDENTIAL ADDRESS

Mr. Robert Ness, of Howick, Que. coupied the chair. In his opening address he called attention to the questions of leef shortage, transporta-tion problems in connection with inculosis. Hon. Martin Burrell, Mini-ster of Agriculture, in a brief speech, told of some of the plans that were being made to assist the various provinces in agricultural work.

SHORTAGE OF BEEF IN ONTARIO Mr. John Gardhouse, speaking for the fat stock men of the east, predict-ed a great shortage of cattle in the ed a great abortage of cattle in the mear future. Farmers, ho said, were not breeding or feeding a sufficient number of Leef cattle, and the quality was not as good as it should be. He believed that the difficulty could be largely overcome by improving the miking qualities of the Shorthorn miking qualities of the Shorthorn the best cow foreve, 'asid he, ''that the best cow foreve, 'asid he, ''that the best cow foreve, ''and he allow the large, deep holide, good flow is the large, ing Shorthorn.'' Mr. Gardhey milk-ing Shorthorn.'' Mr. Gardhey milk-ing Shorthorn.'' ing Shorthorn." Mr. Gardhouse be-lieved that such an animal would be more profitable on the average farm than either specialized beef or dairy cattle, and would solve the problem presented by the shortage in beef sup-

ply. Mr. E. G. Palmer, of Edmonton, proposed the establishment of a chill-proposed the salvation of the ed meat trade as the salvation of the live stock industry of the west. He pointed out that Canada is the only part of the British Empire that can place chilled meat on the British market without the use of preservative. If we produce first quality meat, Mr. Palmer believed that we could soon build up a large and profitable export trade

In connection with the horse in In connection with the norse in-dustry, the subject that received most attention was that of stallion inspec-tion and registration. The stock men were unanimous in endorsing stallion registration

registration. TO PROAFE THE SWINE INDUSTRY Mr. J. E. Brethour, of Burford, said that the awine industry required the assistance of the packers to put it on a proper basis. The system of buying followed does not encourage the breeding of better hogs. The unaren prices are driving many out of the business. Mr. Brethour believed that the packers are neeking too much the togeness. Art Breacht believed that the packers are seeking too much after their immediate interests and will lose in the long run by their methods of paying for hogs. Statistics show that at the present rate Canpork to meet its own requirements.

FARM AND DAIRY

CONCLUSIONS AND RESOLUTIONS As a result of the information of tained in the papers here summarized and in the discussions the following resolutions were approved by the Convention : That as it is desirable to breed only

to pure bred stallions and that this can often be done only by taking the mares to the stallions, be is resolved mares to the stallons, be is resolved that the railway companies be asked to charge full rates on shipping the mares to the stallion, but return them free of charge to the point of ship-

adopt a policy along the line of the that the secretary of this Convention eradication of tuberculosis as recom-mended in the report of the Interna-tional Committee on Tuberculosis. That whereas legislation in regard

to stallion registration is now in force to stallion registration is now in force in four provinces of the Dominion of Canada, and whereas legislation has already been effective in improving the character of stallions in these pro-vinces, therefore be it resolved that this National Live Stock Convention do strandle accommend. do strongly recommend the govern-ments of those remaining provinces in o charge full rates on shipping the ments of those remaining provinces in areas to the stallion, but return them which legislation for the control of stallions for public service in those That the Dominion Government

do send a copy of this resolution to the Ministers of Agriculture in those

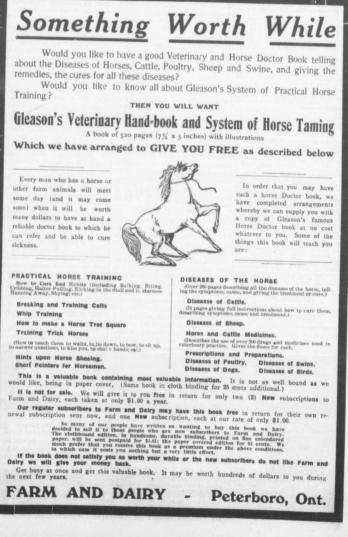
A MUCH NEEDED CHANGE

ties, one to have exclusive charge of the agricultural sections, and that a Bureau of Live Stock Industry, con-sisting of four members, be appointed to regulate, encourage and foster the live stock industry. A further resolu-tion expressed the appreciation of the delegates for the action of the govern ment in thus bringing together the

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A MUCH NEEDED CHANGE It was recommended that the Do-minion Department of Agriculture should be divided between two depu-

(Concluded on page 14)



#### FARM AND DAIRY AND RURAL HOME

Published by The Rural Publishing Com

#### and the set

FARM AND DAIRY is published every ureday. It is the official organ of the lish Columbia, Manitoba, Eastern and etern Ontario, and Bedford District, bec, Dairymen's Associations, and of Canadian Holstein, Ayrshire and Jer-Cattle Breeders' Associations. Thursday. British Colu Western On

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and in comments of examining the requiring and the CHAAGE oF ADDRESS, which as changes of address is ordered, both as old and new addresses must be given. 5. ADVERTISING RATES quoted on ap-plication. Copy received up to the Friday preceding the following work's issue. 6. WE INVITE PARNING to write us on the start of the start of the start pleased to receive practical articles

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from 12,600 to 14,500 copies. No subscrip-tions are accepted at less than the full subscription rates. Sworn detailed statements of the circu-lation of the paper, showing its distribu-tion by counties and provinces, will be mailed free on request.

#### **OUR PROTECTIVE POLICY**

mained rec on request
OUR OT CLUY POLICY
OUR POTECTIVE POLICY
We want the readers of Farm and hairy for feel that they can deal with our advertised of the second of the secon

FARM AND DAIRY PETERBORO, ONT.

#### GOOD BUSINESS

"Anything that is produced in Canada by the application of Canadian brain and labor will always have first call with me. It is only good business on my part that it should."

An attractive little card bearing the foregoing words reached our desk recently with the compliments of the Canadian Market Association, Toronto, Ont. This card deserves some consideration. Who formed the Canadian Market Association? We venture to predict that a little investigation would reveal the fact that this association is directed by and closely allied with the protective institution in Canada, the Canadian Manufacturers' Association.

We freely admit that the people who are benefited by protective institutions know what good business is for themselves, but we object to their telling us what good Lusiness is. Suppose we were to undertake to grow

oranges we wonder if the officers of animously and heartily carried a rethe Canadian Market Association would be willing to pay us five dollars his work in their behalf. a dozen for such oranges when they could obtain oranges from the south their natural home, at forty cents a in Canada has been invaluable. dozen. If they are honest in what they state on this card, they certainly would and they wou'd feel they were doing "good business." Wa presume if we were to charge even ten dollars a dozen for such oranges they would still be willing to pay our price because our oranges were grown in Canada

How loval some people are! It is time that we farmers throw back this misrepresentation of loyalty in the faces of those men who wave the old flag in order that they may stick their hands in our pockets and enrich themselves at our expense.

#### THE FARMERS HAVE SPOKEN

Some months ago Premier Whitney announced publicly that while he was opposed to municipalities being given the right to exempt improvements from taxation and to tax land values only should they so desire, he would not oppose such a measure should the farmers advocate it. We presume that Premier Whitney meant what he said, and, therefore, take pleasure in case he may not have noticed it in drawing his attention to the stand recently taken by the Dominion Grange at its annual meeting in Toronto, when the following resolution. after discussion, was passed unanimously by the farmers there assembled .

"We desire to place ourselves on record as favoring such a change in our assessment law as will allow municipalities the right to exempt improvements from taxation, either in part or in whole. Much can be said in favor of such exemption, and nothing can in justice be said against allowing municipalities the right to do this if they so desire."

As the Dominion Grange is the only independent farmers' organization in Ontario, and, therefore, the only organization that has any right to represent the farmers of the province, we presume that Premier Whitney will fulfill his promise and grant the legislation so much desired, not only by farmers, but by other classes in the community as well.

#### DR. RUTHERFORD APPRECIATED

That the live stock men of Canada deeply appreciate Dr. J. G. Rutherford, Dominion Live Stock Commissioner, and his great work in their interest has been proven time and again since the first news of his resignation was made public. In the last week or two there have been meetings of practically every association of live ducing ability, but she had never stock men in Canada, and almost without exception resolutions have been passed at these meetings expressing the appreciation of the members of Dr. Rutherford's work. The did Mr. Clemons. We can all, howclimax was reached at Ottawa last ever, greatly increase the value of our week, where delegates representing dairy herds through good feeding and

solution thanking Dr. Rutherford for

Dr. Rutherford's work for the advancement of the live stock industry For almost 30 years he has devoted his abilities to the furtherance of this industry. He has served in many canacities and in all with satisfaction to those whom he represented - the live stock men of Canada

Along with the expression of appreciation of Dr. Rutherford's work have been many expressions of regret that so valuable a public servant is to sever his connection with the Department at Ottawa. It has been rumored, and we have reason to believe, that Dr. Rutherford's resignation is due to the unsatisfactory arrangement in the Department, whereby it is necessary for him to act under the direction of the Deputy Minister, a lawyer, who can not have a proper appreciation of the importance of Dr. Rutherford's work.

It would be difficult indeed to replace Dr. Rutherford. If any rearrangement of the Agricultural Department can be made whereby the strictly agricultural branches may be placed in a Department by themselves under the direction of a deputy minister who is truly an agriculturist, and Dr. Rutherford's services retained thereby, such action will meet with the approval of all who have the best interests of Canada at heart. If the Hon, Martin Burrell can retain Dr. Rutherford's services for the live stock interests of Canada he will confer a great benefit on that industry, and his action will be appreciated by live stock men everywhere.

#### A REWARD OF MERIT

The returns that come to some dairymen as a result of their intelligent feeding and management should convince all other dairymen that it is well worth our while to be right upto-date on everything that concerns the dairy cow. The experience of Mr. Percy Clemons, of St. George, Ont., is an instance of intelligent management well rewarded.

When Mr. Clemons hought their great cow, Evergreen March, they paid for her \$112.50. After she had made her great record, Mr. Clemons priced Evergreen at \$2,000, but today he would not care to put any price on her since she is worth more than that in his herd. A few weeks ago one of her sons sold for \$500, and her yearling heifer for \$800. All of this value comes from the great record that Evergreen was able to make as a result of Mr. Clemons' careful and skilfu! feeding. Of course, her breeding had a lot to do with her promade great records until she came into Mr. Clemons' hands.

We cannot all expect to get such large returns for good management as oranges in Canada under glass and the live stock industry of Canada the satisfactory records that are

charge five dollars a dozen for these from the Atlantic to the Pacific un-I found to result. Even if we do no greatly increase the selling value our animals, the increased interes that we take in our herd and the greater milk flow will more than recompense us for the trouble that w take in making of ourselves skilful and intelligent dairymen

> The Minister of Agriculture for the Dominion, Hon. Martin Burrell, is to be congratulated on securing for the federal department

To Wider the services of Mr Fields C. C. James, Deputy Minister of Agricul

ture for Ontario. For many years. Mr. James has been the back bone of the Ontario Department of Agriculture, and much of the progressive work that has been done in connection with that Department can be traced to the initiative and untiring efforts of the Deputy Minister. Ontario's loss will be Canada's gain and in the wider field offered him by the Dominion Department, Mr. James, whatever permanent position he finally occupies, will be found doing good work in the interests of Canadian agriculture. All will unite in wishing Mr. James every success in

The annual meetings of the various Dominion horse, cattle, sheep and swine breeders' associations were held

his new field.

recently in Toronto. They were attended by Inde pendence upwards of 2,000 breeders, and the sessions

extended for a couple of weeks. There was one outstanding feature about all these meetings. The men who attended them were not looking for government favors of any kind. They stood on their own feet, and the organizations they represented showed a thrifty virility that is almost invariably lacking in organizations depending on government grants. One of these organizations has a balance on hand invested in municipal bonds of over \$11,000. In his address at the banquet of the Holstein Friesian Association, Mr. G. A. Putnam, Superintendent of Farmers' Institutes for Ontario, called attention to the inherent strength of breeders' organizations, and stated that similar strength seems to be lacking in the case of those farmers' organizations that expect to be spoon fed. It is time that we farmers stood on our feet a little more than we do and run our own affairs without waiting to have everything done for us. We can never develop true strength until we

"Birds of a feather flock together. Look through the advertising columns of Farm and Dairy and see the fine plumage of highest merit. Then glance at a publication that does not guarantee the reliability of its advertisers and see a bird of another color. The hues are as numerous as the shades of the rainbow, and about as definite when it comes to placing your fingers on them. See what our guarantee says on this page about advertisers.

learn to do things for ourselves.

#### February

There is POSE back lishing Eigh vear Special Primarily

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RE A POW To do the quire circula tion, althoug 483 names o mailing lists We do no

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Each of ou Specials are gi 2.000 extra which is as so our advertiser these Specials us to make the have been fi help maintain I that distinctive "A Paper Farm



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#### FARM AND DAIRY

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#### XVII

There is A GREAT PUR-POSE back of our policy in publishing Eight times during each vear Special Magazine Numbers. Primarily before we can suc-

ceed to the greatest extent WE must RENDER A GREAT PUB-LIC SERVICE We must first of all do good-

BE A POWER FOR GOOD

To do the greatest good we require circulation,-more circulation, although we now have 12,-483 names on our regular weekly mailing lists.

We do not approve of forced circulation. With Farm and Chairy it must be FULL \$1,00 PAID - IN - ADVANCE, coming from progressive, farmer people, can appreciate REAL WORTH in the farm paper for which they subscribe.

Therefore we do not hire paid canvassers.

WE WORK entirely through OUR PEOPLE who appreciate the real worth in Farm and Dairy, and show it to their friends and neighbors

Before we could hope to get very far with this policy we of very far with this poncy as on necessity must spend money on Ferm and Dairy. We must make it THE LEADER in its field. We must GIVE GREAT-ER VALUE for the money than the 'other fellow.

One means we have of doing this is with our EIGHT Specialized Magazine Numbers, now in FOURTH ANNUAL SERIES.

These Magazines are planned months in advance of their date of publication. They feature information of great practical value. They are in a sense WORKS OF REFERENCE, and are kept as such by our people.

Each of our Eight Magazine Specials are given from 1,000 to 2,000 extra circulation, all of which is as so much "velvet" to our advertisers, who patronize these Specials and thereby enable us to make them the success they have been from the start, and help maintain Farm and Dairy in that distinctive class, where it is-"A Paper Farmers Swear By"

#### Making Farmers Prosperous

Making Farmers Prosperous (Grain Grovers' Guide) The tariff makes farm implements cheaper in United. States than in Canada, while the price of grain is exactly the reverse. The following table shows how many hushers of grain it iakes to buy an S-foot binder in ManitoLa and Mingeota

Manitola and Minnesota: Minnesota Manitola 3 Nor, Wheat... 152 bus. 208 bus. Feed Whaat... 196 \*\*\* 206 \*\* Rejected Flax... 78 \*\*\* 296 \*\* Rejected Flax... 78 \*\*\* 296 \*\* Rejected Flax... 78 \*\*\* 120 \*\*\* 3 C.W. Oats.... 299 \*\*\* 4 493 \*\*\* 5 C.W. Oats... 299 \*\*\* 4 5 C.W. Oats... 2015 At the present rate, the protection-ists will soon force a great many At the present rate, the protection-ists will soon force a great many farmers to quit farming in order to make a living. These are all man-made schemes. Providence is not to blame.

#### **Combines** Condemned

Combines Condemned Combines and mergers that operate in Canada to unduly enhance prices of commodities to farmers were vig-orously condemned at the recent meeting in Toronto of the Dominion Grange. In his annual address the Master, N. E. Burton, of St. Thomas, called attention to it twhen he said : "The increased cost of living, both "on the farm and among the indu-"trial workers of the city, is one of "the viral questions that calls bodd!" "the vital questions that calls loudly "for solution. Each day it becomes "nore evident that combines, mergers "and trusts have the people at their "mercy, and are able to fix prices both to the producer and the con-"sumer." In this connection Mr.Bursumer. In this connection Mr. bur-ton suggested that as farmers we should consider the advisability of co-operating with the Trades and Labor ouncil in an effort to secure a rem

The influence these financial interests have in moulding legislation to suit their purpose and the need for action by farmers was mentioned in the report of the executive commit-tee of the Grange, where it was stated :

"Our agricultural population is "Our agricultural population is "only in a semi-conscious condition "regarding the mode of operation "that is being used to accomplish the "that is being used to accomplish the "purpose of the noneyed interests." "wherever such combinations are "rests with us. If we are able to "harnos denoted the latent power "bab decontrol the latent power "built of the farmers who form the great "built of the selectorate success will be "in a being the built of the latent power "built of the selectorate success will be "rests." The pominion Grange is the only "ours. We trust that some means "ours due that some means "to start this great balance wheel "the bind the sumer."

The Legislative Committee of the The Laguattie committee of the Grange reported as follows: "We would urge upon the Domin-blood makes you disease resisting.

Bowker's Fertilizers They enrich the earth and those who till it. By the use of a good fertilizer, any farmer can add greatly to his profit through raising bigger crops. He can make each of his acres produce more, or he can cultivate

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fewer acres, and still produce as much as he

is getting now, but with less labor and ex-

pense. This is a big item, if hired help is

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#### **ADVERTISERS** Send a Line Right Now about the special and Garden Magazine Number-out March 7th1 Note Great Dairy Annual, out April 4th. FARM AND DAIRY, Peterboro, Ont.

ion Government the need for prompt <sup>11</sup>ion Government the need for prompt "and throough investigation of al-"leged combinations in restraint of "trade, and the removal of duties, as "already provided for by statute, "wherever such combinations are "shown to exist. In particular, on "behalf of the farmers of Canada, we About the Farm

The wastes of the farm are responsible for more farm failures than

sponsible for more farm failures than any other one thing. Cleanliness is next to healthy stock and some satisfaction in work-ing around the barn these cold days.

The wisest farmer plans to keep as The wisset farmer plans to keep as much fertility as possible on his own farm. Instead of selling his grain crops, he feeds them and buys what-ever grain his neighbors have for sale. Dairying and ateck raising may have some discouragements at times, but no fervice unagements at times.

but no farmer who expects to keep up the fertility of his land can afford to quit handling stock.



rally to its support.

194 (14)



#### **Complete Butter Plant** FOR SALE

1 (200 gal. drum) Success Churn and Worker, C. Richardson's make, St. Mary's, Used only 18 months. Is in 1st Worker, Mary's, Used only 18 montan-class shape. 1 Refrigerator, large size, 2 ft. by 3 ft.

Refrigerator, large size, 2 ft. by 3 ft. 4 ft. inside. Twelve H.P. Horizontal Stationary

ler. Six H.P. Lenard Engine, to set on e beside Boiler. ater Tank, Belts, Shafts and Pulleys. Ill sell in bulk or Churn alone. Rea-for selling: Gone out of butter mak-And WILD SELL CHEAP. For full particulars write CHR. I. ZEHR, R.R. No. 5 Tavistock, Ont.

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dution. Ice and wood in. Excellent water and drainage. Doing a very profitable busi-ness. Don't reply unless you mean busi-

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Sa Day Sure to the two of the day of the da the buildows fully, remember we pushes a case please of the state of t

#### FARM AND DAIRY

Creamery Department Butter makers are invited to send sat question on matters relating to better making and to suggest sub-ters for demains. Address latters

No Danger of Over-production

J. A. Ruddick, Dairy Commissioner. Ottawa

We have seen that the United Kingdom continues to absorb an increasing quantity of dairy produce, and that Germany is becoming every year a larger buyer of these articles of food from other countries. The home market in Canada is expanding with the increase of population, and from all appearances, the United States will soon be an importer instead of an exporter

The greatly improved quality of all butter which has followed the appli-cation of skill and scientific methods in its manufacture results in it Leing spread more thickly than it formerly was, and as this occurs at practically every table in the land, the total increase of consumption on that account is very large.

The most outstanding feature of the dairy trade at the present moment is the growing demand for milk for the larger towns and cities. It is quite as noticeable in Canada as elsewhere. as noticeable in Canada as elsewhere. Winnipeg is now obliged to obtain a large quantity of milk daily from nuch a distant point as St. Paul, such a distant point as St. Paul, Minn. The demand in Vancouver is Minn. Fraser Valley. The same thing is occurring in other parts of the coun-

#### PER CAPITA CONSUMPTION

The increased per capita consump-tion of milk and cream is very large not only in Canada, but in all cour tries where these articles are included in the daily dietary of the people. The improved sanitary condition rounding the production and distrirounding the production and distri-bution of market milk have given a great stimulus to its use, and there is still much to be accomplished in that direction

The only countries which are likely The only countries which are likely to increase their exports to any con-siderable extent are Australia. New Zealand and possibly Siberia, but there is no reason to believe that the increased supplies from these coun-tries will exceed the growing demand for dairy produce. The conditions which have been out

lined give no indication of an over-production of butter or cheese during the next few years at any rate, and there would appear to be at the same time a fair promise of good prices. On the whole, the outlook for dairying in Canada is as good, if not better, than it ever was, and it seems to be particularly bright for the coming season.

#### **Comments on Boilers**

# Now and then one still notices creameries using small upright boil-ers. There is no creamery in the country worthy the name of creamery that can afford to use an upright boil-

er. They are not as economical as horizontal boilers and generally less



We believe there are few creameries still using upright boilers, but we know that there are plenty of creamknow that there are pienty or cream-eries using boilers too small for best results. A boiler of too small capa-city is wasteful of fuel. Such a boilcity is wasteful of fuel. Such a boil-er requires constant and hard firing. er requires constant and hard firing, which in itself is wasteful of fuel as well as labor, but such firing results in much wet steam, which is also wasteful of fuel and causes "priming.

If you want to save money and fuel If you want to save money and fuel get a boiler of sufficient capacity. Little harm is done by getting too large a boiler.—Butter, Cheese and Egg Journal.

#### Errors in Taking Samples

L. A. Zufelt, Supt. Kingston Dairy School

A difficulty that may be met with in taking cream samples for testing is in getting a sample that is truly representative of the quality. From investigations conducted by Mr. J. F. Singleton it was found that the samgathered by the cream hauler ly represented the quality of the individual creams, and we have no reason to doubt the correctness of these samples when reasonable care is observed in mixing the cream before the sample is taken.

If, however, composite samples ar preserved some effort should be made have the sample which is placed the jar represent proportionately the amount of cream delivered For instance, if the weight and quality

of the cream varies with each deliv ery and the same quantity is placed in the composite jar, the result may not be absolutely accurate. For ex ample, if a patron delivers 40 lbs. of cream that tests 30 per cent. fat on one day and 60 lbs. testing 20 per on another, he would deliver altogether 40x30.....12 lbs. fat

60x20.....12 lbs. fat

100 or in the two days he would have delivered 100 lbs. of cream having a total of 24 lbs. of fat and testing 24 per. cent. If the same quantity of each had been put in the sample jar and tested, it would have shown an average of 25 per cent. fat. In other words, the patron would have re-ceived credit for one per cent. more fat than he was entitled to.

While the above may be an extreme variation and not usually met with, it illustrates the point that some effort should be made to have sample taken fairly represent both the quality and quantity of the cream

#### Dairying the Most Progressive (Continued from page 11)

stock men, and it was recommended that arrangements be made to

mended that arrangements be made to hold the Convention every two years instead of every four, as formerly. A committee of the dairymen pre-sented a resolution expressing their hearty appreciation of the work of the Dominion Government in the carrying out of the Record of Per-formance tests. Another resolution recommended that the payment for milk and cream at butter and cheeses factories on a butter fat basis be factories on a butter fat basis be made compulsory. The resolution as

it was worded was strongly objected to by Col. McCrae, of Guelph, and Mr. J. A. Ruddick. The motion was laid over.

Due to the efforts of Mr. Robt. Mil-Due to the enorts of Mr. Kobt. Mil-ler, of Stouffville, a resolution was carried recommending that the words "Resident in Canada" be added to the qualifications necessary in an im-porter Lefore he can import pure bred stock into Canada free of duty.

#### February 22, 1912.

The election of officers resulted as follows: Pres., Andrew Graham, Po-moroy, Mar.; vice-pres. John Bright, Myrtle, Ont.; Excentive committee. Hon. W. Garneau, Que. P. M. Bredt, Regina, and Cap. T. E. Robertson, London; see-tress., A. P. Westervelt Directors. A. D. Patterson, Ladner, BC; J. A. Turner, Caligary, Alta Robt, Sinton, Regina, Sask.; A. M. Fual, Brandon, Man.; W. Ballan Fual, Brandon, Man.; W. Ballan Charlotteobar, N. B. (M. Campbell Apohagin, N. B. (M. Campbell Truro, N.S., and Hon. N. McKinnon, Charlotteobar, P. E. I. An address by Dr. J. G. Ruther-ford on tuberculosis will be summar-ized in a future issue of Farm and Dairy. Szeveral of the addresses al-ready referred to will also be dealt with more fully in future issues of Farm and Dairy. The election of officers resulted



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If buttermakers will make it plain to creamory owners that a reason-ably warm creamery is necessary for best yield and quality of butter, they will be more likely to be granted in-creased heating facilities than when their own well-being is made the chief

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## Cheese Department Makers are invited to send contributions to the department, to ask questions and the department to the questions and provement of the buildings. Satisfied with Cool Curing Room ......

#### Pooling Milk is Robbery

Jno. McKee, Oxford Co., Ont. in the sale of no other product sold the farm is the pernicious pooling tem followed. If a farmer properspicen followed. If a farmer proper-ly oprays and prunes his orchard and thereby is enabled to grow a superior quality of fruit he gets a higher price than his neighbor who neglects to spray and prune. The law compels than his neighbor who neglects to spray and prane. The law compels the grading of fruit according to quality, and the grower is paid on whis basis.

We have a set of the set of the

four or 4.0 per cent of butter fat. The experiments carried on at our cheese factories, agricultural colleges and experiment stations all prove most conclusively that the richer the most conclusively that the richer the milk the more cheese can be made from a given quantity. Then why should the patron sending the three per cent milk be paid the same price as the man sending, the high testing milk? The system as followed at the more mainter of our showed at the milk? The system as followed at the great majority of our cheese factories today is nothing more or less than downright, legalized robbery of the patrons sending the high testing milk.

#### Handicaps of the Cheese Maker

W. Waddel, Middlesse Co., Ont. A maker should not be asked to make to-day with bad milk and poor curing rooms. We choese makers should work to eliminate these two defects. We cannot reach perfection in a day, but we should not that will couraged. A curing room that will go up to 80 decrease sweet that will

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We are improving in both of these particulars. We should work to im-prove the patrons and if it is a joint stock company, through them the im-provement of the buildings.

W. G. Locklin, Hastings Co., Ont. Three years ago we installed a cool curing room in the Rogers Cheese and Butter Factory. It gives good satis-faction. Such a room is a great ad-vantage to any cheese factory of ordinary capacity.

The cost of installing our curing room was about \$700, or a little less room was about \$700, or a tittle ress. The curing room was built by plac-ing matched hendock on studding, then two thicknesses of moist-proof or-per covered with abin lap siding. In-side is matched lumber filled with sharings, then moist-proof paper and ceiled over. We have accommodation for about 1,000 cheese. There are commat flows; in the curing room, One The about 1, we may accommodation for about 1,600 chesses. There are receipt floors in the curring room. Our receipt floors in the curring room. Our receipt light holds about 600 cakes of the bottom, but leave an air space at the bottom, but leave and in the state time the cool air in sides. By the time the cool air in sides the time the cool air in sides to the plenty of circulation, the but have since had better results by filling tight against the sides. The ice last the season through.

#### NO GREASE NOW

NO GREASE NOW We have complete control of the temperature in our curing room and can have our cheese firm and hard in the hottest day in summer. It is equal to fall euring. We never see any grease on the shelves. We have made no definite test to know just what we may be gaining by our in-vestment in a cool curing room, lut we know that we get a better average than we did with the old curing room and a better average than neighbor-ing factories that used to be equal with our own. I am astisfied that we ing factories that used to be equal with our own. I am satisfied that we get more pounds of cheese from the milk manufactured and our cheese go on the market in much better condi-

system, but even with almost even prices the curing room more than pays its way. system,

#### C. C. James Goes to Ottawa

C. C. James Loves to Uttawa The appointment by the Dominion Government of Mr. C. C. James, Deputy Minister of Agriculture for Ontario, as Special Commissioner to inquire into the question of federal and provincial cooperation in the en-gouragement of agriculture, will de-prive Ontario of a most valuable pub-lie servant. It is understood that Mr. James avera his connection with lie servant. It is understood that Mr. James severs his connection with the Provincial Department of Agri-culture permanently. It is not im-probable that if he is not made the head of the prospective permanent agricultural commission, he will he be some donute ministee of the high head

FARM AND DAIRY

#### Experience with Fertilizers (Continued from page 5)

**Experience with Fertilizers** (Continued from page 3) We wars previous to this test 1 tried the Union experiments Nos. 3 to the sense of the sense. The season the sense of the potential sense of the sense of the sense of the potential sense of the sense of the sense of the potential sense of the sense o

a sandy loam, I would caution Farm and Dairy readers against the jump-ing to the conclusion that it is likely to do the same in all cases. I be-lieve that nearly all soils that have been cropped for any length of time will respond to the application of some one or other of these fortilizers. some one or other of these fertilizers. Some may require one, some another and others again possibly a combina-tion of the three elements; it is part of the farmer's business to find out tion or the three elements; it is part of the farmer's business to find out what his land requires, whether the application of it will be profitable, and if so to apply it. Then searn different crops require the elements of plant food in varying proportions, so that the fortilizer that gives the best returns with one erop may be of very little benefit to another. If find this very marked when using the same materials on manges and tur-nips and fall wheat. Thad also in-tended taking up the effect of these tradifizers on the grain crop succeed-ing the potatoes, but my letter is al-ready too long, so I must reserve this for future consideration. for future consideration.

#### Holstein Breeders' Doings

Holatein Breeders' Doings (Continued from junge 10) Evergreen March at 8 years made 23.66 Bos. in 7 days and 97.81 Bos. in 30 days. Netherby Queen Jane, owned by H. J. Allison, made 22.86 Bos. fat in 7 days. at 8 years. Olive Schuling Posch at 5 years made 22 Bos. fat in 7 days. She is owned by James Rettie. Clara Mercedes De Kol at 6 years

Clara Mercedes De Kol, at 6 years Chara Mercedes De Kol, at 6 years, owned by H. Jerome, made 22 lbs. fat in 7 days. Aaggie Mercedes at 4 years, made 21.60 lbs. fat in 7 days and 88.69 lbs. in 30 days. She is owned by J. M. Van Patter.

Berrer P. F. Clemona; onerorooke and Quebec-R. S. Størenson, and A. C. Hallman, Breslau, reserve; London-E. Laidaw, Aylmer West, with F. Mallory, reserve; Ottawa-Prof. Bar-ton, MacDonald College, Que; G. A. Brothen, Norwod, reserve; St. John -R. S. Stevenson, D. C. Flatt reserve; Halifax-G. A. Brethen, re-serve; Halifax-G. A. Brethen, re-serve; Halifax-G. A. Brethen, re-serve; Halifax-G. A. Brethen, re-serve; B. Stevenson, D. C. Flatt reserve; Negina-G. A. Gilroy, Glen Haley, Springford, A. E. Hulet, reserve; Regina-G. A. Gilroy, Glen Buell; Calgary and Edmonton-J. W. Richardson; Victoria and New Westminster-D. C. Flatt. Boy appen presenting material in the start of the group of the start over and to produce milk esones. This were start over an indicated by the start over and the start ove



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OU have not fulfilled every duty unless you have fulfilled that of being pleasant-Buxton ...

#### The Second Chance (Copyrighted) NELLIE L. McCLUNG Author of "Sowing Seeds in Danny" (Continued from last week)

(Continued from last useh) Facil, the oldest daughter of John Waisen, s.O. P. R. section man living an filtored, Man, receives a large sum of mouse from the relatives of a young Reg-time of the section the family. The Waisons are joined by their Associate bereal and the rest of the family. The Waisons are joined by their Associate bereal and the rest of the family. The Waisons are joined by their Associate bereal and the rest of the family. The Waisons are joined by their Associate bereal and the rest of being a school teacher. Bhe sees that her small brothers are learning bed that in the town and gives up her assolition to be a school teacher and suggests doed to the children at a control which are the the section of the section being the section of the section of

job from them when you get a little bigger, if they're not careful." Pearl laughed good - humouredly

and went on with her potato-digging. Thomas Perkins went home soon after, and even to him the quiet glory of the autumn evening came with a sense of beauty and of God's oversense of beauty and of God's over-shadowing care. "I kinda wish now," he said to himself, "that I had gone and cleared up the boy's name at first. I can hardly do it now. They would think I hadn't had the nerve to do it at first. Say, what that kid said is pretty," "I first looking at the bars of amethyst cloud that streaked the west, and at the that streaked the west, and at the lemon-coloured sky below them. Prairie chickens whirred through the Frame citckens with feat unbigning of air on their way to a straw-pile near by. From the Souris valley behind him came the strident whistle of the evening train as it 'bundered over the long wooden bridge. A sudden love of his home and family came to Thomas Perkins as he looked over at his comfortable buildings and his his component of the second fields. "If Bud were only out there," he thought, "how good it there," he thought, wandering to-would be! Poor Bud, wandering to-home, and through night without a home, and through no fault of his own."

Just for the moment Mr. Perkins repentant; then was honestly repentant; then the other side of his nature came back. "I do hope that boy will think ... grease his boots-they'll go like paper if he doesn't," he said. the

CHAPTER XXIII. PEARL'S PHILOSOPHY. For the love of God is broader Than the measure of man's mind, And the heart of the Eternal Is most wonderfully kind. --F. W. Faber.

M R. Perkins looked at her in sur-prise. "Upon my word, that's true," he said. "Say, Pearlie, you'll be taking away the preachers' the atumn, when the grass is faded the autumn, when the grass is faded and the trees bare and leafless. She explained it to the other children coming home that night.

"You see, kids," said Pearl. "in the summer everything is so well fix-The summer everything is so well fax-led up there's no need to hide any-thing, and so the sun just shines and shines, and the days are long and bright to let every one have a good look at things. There's the orange-like pepperin' the grass, and there's cowelips and ladies' slippers, it is's wellow over like and ladies' slippers. if it's yellows you like, and there's wild roses and morning-glories, and wild roses and morning-giories, and pink ladies' slippers, if you know where to look for them, and the hills are all so green and velvety, and there's the little ponds full of water with the wind sprinklin' the top of it, and strings of wild ducks salin' kind c' sidoways across them. Oh it's o' sideways across them. Oh, it's a great sight, and it would be a pity to put a mist on it. But now the colour has faded and the ponds have dried up, and the grass is dead and full of dust, and it's far nicer to have this gray veil drawn in close around. It helps you to make a pretty pic-ture for yourself. Now, look over there, near Tom Simpson's old house -that ain't a train track at all, but Pearl's voice had fallen almost to

a whisper

To-night when the moon rises the tallest one, the one with the deep scar on his cheek, will lead the way to the cave in the rock; the door files open if you say the password 'Ma-gooslem,' and there the golden guineas lie strewn upon the stone floors. And look back there at Lib Cavers's house-do you see how It was a dreamy day in late Octo-dreamy like and sleepin' it is, not didn't hand it out to him myself." Were veiled in mist, but every object on the prairie had a gentle draping ever ditty dishes or anybody feelin' of amber gray. "Prairie fires rais-sad or lonely, and 1 don't believe "God does his level best for every-in' in the hills," said Aunt Kate, who always sought for an explana-tion of natural phenomena, but if may any sought of the magnation of her audience—

"that's just a dream house, where there is a big family of children, and they're goin' to have pancakes for supper — pancakes and maple supper - pancakes syrup

At this association of ideas Bug-At this association of ideas Bug-sey made a quick move for the din-nerpail, in which he had a distinct interest. Bugsey was what his par-ents called a "quare lad" (his bro-ther often called him worse than that), and one way he had of show-ing his "quareness" was that he did not even eat like other people. On this particular day the Watson chi-dren had for dinner, among other plainer things, a piece of wild cran-berry pie, with the pits left in, for each child. Patsy's piece had gone at the first recess; Danny's did not get past the fireguard around the at the first recess; Danny's did not get past the fireguard around the school; Tommy's disappeared before he had gone a hundred yards from the house (Tommy was carrying the dinner-pail); but Bugsey, the "quare Iad," did not eat his in school at all, but left it to eat on the way home. Now creates an intervention of the school of the school at all.

Now cranberry pie with the pits in is a perishable article, and should not be left unguarded in this present evil world, where human nature has its frailties. When Bugsey looked in-to the pail, he raised a wail of be-reavement, and at the same moment Tommy set out for home at high accelerated no doubt by the speed oroddings of conscience. Bugsey ollowed, breathing out slaughter, followed, and even made the murderous threat of "takin' it out of his hide," which no doubt was only intended figuratively

"Come back here, Bugsey Watson!" cried Pearl authoritatives. "What do yez mane by it? S'posin' he did ate yer pie? It ain't as bad on [1] as if he knocked an eye out of yer. You shouldn't have left it in the pail to tempt him anyway. If you'd et it when you should ye'd had it and. anyway, don't be ye wasting yer temper fightin' for things like pie, temper that's here to-day and away to-morthat has the mean feelin' than it is for you, so it is." In her excite-ment Pearl went back to her Irish brogue

broque. Tommy by this time was a long way down the road, still making his small legs dy, thinking that the avenging Bugsey was in pursuit. So intent were the children on the pie dispute that they did not hear the approach of a bugsy behind them, until Sandy Braden with his pacing horse drove by. When he saw Pearl he reined in with a sudden immule. impulse

impulse. "Will you come and ride with me? I'll drive you home," he said, ad-dressing her. "Bring that little chap with you," he added, noticing the shortness of Danny's fat legs. Peal assented to this, and she and Danny climbed into the rubber-tyred

buggy.

They drove for a short distance in silence, and then, pulling his pacer to a walk, Mr. Braden said: "I have always wanted to tell you, Pearl, that always wanted to tell you, Pearl, that I did not break my word that day. I left word with the bartender not to give Bill Cavers any liquor, but he did give it to him, and I have been sorry ever since about it, and I wanted you to know."

"I am glad you told me," Pearl answered quickly, "for I've often been sorry for you, thinkin' what sad thoughts you must be havin'." "My thoughts are sad enough said gloomily, "for it was sad enough,"

"My thoughts are sad enough, he said gloomily, "for it was m whisky that killed him, even if didn't hand it out to him myself." Pearl did not contradict him. my f I

won't take telling, He has to joint

won't take telling, He has to pit them good and plenty. But He it, "I'm afraid I have not such ur-bounded faith in the Ruler of tie Universe as you have," he said it, last. "Bill Cavers didn't get exactly a fair deal." "Oh, don't worry about Bill Cavers now," said Pearl quick; "Bill's still in God's hands, and G d has a better chance at him now thn He ever had. God never intend d Bill to be a drunkard. or you to is has a better chance at him now than He ever had. God never intend d Bill to be a drunkard, or you to be handing liquor out to people; y-u can bank on that. And he never in-tended Mrs. Cavers to be all sad and discouraged. God would do good things for people if they would do ry let Him, but He has to have a fre-hand on them. When you see people-rooin' wrong or cuttin' up dog, you may be sure that God didn't put it down that way in the writing. Some down that way in the writin's. Some one has jiggled His elbow, that's all And it's great how He makes it up to people, too. Now, you'd be sur-prised to see how cheerful Mrs. Cavers is. When I went over after our threshin' to take her the money

"What money?" he interrupted. Pearl hesitated. "Well, you know we took their farm when they left it. we took their farm when they left it, and there was some cleared on it, and so we gave her a little to help her and Libby Anne to get readv to go back to her folks down East.'' "How much did you give hcr?'' he asked. asked.

"Two hundred dollars. She didn't want to take it, but really was glad of it, and Pa and Ma and all of us of it, and Pa and Ma and all of u have been feeling better ever since. But I was goin' to tell you how cheerful she is, and Libby Anne is happier than she used to be. Poor little Lib, she's so thin and pale, she's never had a good time like other children."

other children." Sandy Braden winced at her words. for an illuminated conscience showed him what had cheated Libby Anne out of her childhood. "Poor little kid!" he said. "Roor little kid!" he said. "Ison knew," said Pearl, after a "saw knew," said Pearl, after a didn't really know wonions tant , ou didn't really know wonions tant , ou didn't really know wonions tant , ou do it. You were in, or you wouldn't do it. You did not look to me like a man that would hit a woman."

"That's the part of it I can't for-get," he said bitterly. "I can't for-get the look of that thin little wisp of a woman, and Lord! how she glar-ed at me! She could have killed me

ed at me! She could have killed me that day. I don't go much on reh-gion, Pearl. I don't see much in re-ligion, but I certainly would not hin a woman if I knew it." "Where did you learn that?" Pearl "With the set of the the set of the set of the set of the that there's no religion at the set of the that there's no religion at the set of the only ours. You say you don't me only ours. You say you don't go much on religion, and still it's te-ligion that has put any good in you that there is, and don't you forget it. "

"That's not saying much for it. either," he said gloomily.

"Well, now, I think it is," said Pearl. "In lots of countries you" said Pearl Pearl. "In lots of counties you'p pass for an awful good man. It's only when you stood up beside Christ who was so good and kind and straight, that you can see you're on what you ought to be. If it wan't for the Bible and Christ we would'n how how yood a man should be it. know how good a man should be" "I haven't read the Bible for a good many years," he said slowly. "I don't believe I ever read much of

Pearl looked straight into his face, and said without a minute's he ita-tion: "Well, 1'll bet you a d llar some one read it for you and paised it on to you."

Sandy Brad ahead of him, o prairie road, at the sand-hills, spruce trees, bl tinctness-that turned toward t saw in one of th saw in one of tr memory which nothing is eve was a cheerful with a rag-car pictures in roun The sun came windows, and like Sunday, sitting in the r big Bible on he side was a little to be himself 1 windows, and to be himself | finger the thin to a threa of her hand on hinger over the ing him; and by years they came another as I have remembered, too the sweet-mary ways kept in his saw again the ca ed birds on ther Sunday school fe and which were pages; and these things with there came bas numb feeling of when he ca broken boy, f funeral that day and buried his fa eaves in the old its pages with hi ed more like her in the house. H the undertaker's

front window, w rested, and that camphor. Pearl saw that At last he spo Pearl," he said. read it and pass would have been staved closer to w

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Deputy of the Min N. R.-Unauthorized ivertisement will n

WOMEN kitchen utensils, books riende and neighbors a to this paper. Ca e On new subscribers. scribers at only \$1 will pay you \$15.00 ( FARM & DAIRY,

#### February 22, 1912.

saw in one of those sudden flashes of memory which makes us think that nothing is ever entirely forgotten, with a rag-carpet on the floor and pictures in round frames on the wall. The sun came in through the castern windows, and the whole place for

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#### SYNOPSIS OF CANADIAN NORTH-WEST LAND REGULATIONS

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WOMEN CAN EARN MONEY OF and super medial articles of house kitchen utenski, books, ed., by beak disks, friends and neighbors and getting them to sup-stribt to this particles of nouse of secape that is open to them, a on new auberliers. Gat us 25 new super frank & DAIRY, Peterboro, Ont.

#### FARM AND DAIRY

Sandy Braden looked straight ahead of him, down the deeply tinted prairie road, at the hazy outlines of the sand-hills, with their scattered spruce trees, burred now into indis-tinctness—that is, his eyes were unred toward them but what hereally saw in one of those sudden flashes of wennor which makes us think that "Ain't it queer how things turn out?" Pearl exclaimed, after a long lief from conditions that are intoler-why Christ had to dic--it scemed a Him that lovin' and kind-do you manuscript written by a typewriter mind how gentle and forgivin' He was?"

was,"" Sandy Braden nodded "Well, Mr. Donald and I have been talkin' about it quite a bit, and at first we thought it shouldn't have happened, but now it looked as if God had to strike hard to make people listen, and to show them what a terrible thing sin is. Death ain't nothin' to be afraid of, nor sufferin' either. Sin is the only thing to be real scared of. It wasn't the rusty nails through His hands that made the dear Lord cry out in agoon--til nails through His hands that made the dear Lord cry out in agony—it was the hard hearts of them that done it. Bill Cavers's death has done good already, for it has closed your bar; and you're a different man now, thinking different thoughts, ain't you? now, thing ain't you?"

#### (To be continued) ...

#### Why Girls Leave the Country Peter McArthur, in the Globe

There are many causes for the re-volt of the girls. They crowd on me so rapidly that I find it hard to make so rapidly that I and it nard to make a selection. About a year ago I re-ceived a letter from a woman in St. Mary's, which set forth in all its hideousness the meanness with which



#### "Home Sweet Home."

A country home always seems to have an air of comfort and homeliness not found elsewhere. Perhaps that is why business men in town always dream of a home in the country "some day." In our illustration may be seen the farm home of Mr. Fred Bertram, Feterboro Co., Ont Mr. attact and the feterboro Co., Ont Mr. Statistical and the feterboro -Photo by an editor of Farm and Dairy.

many farmers treat their wives in money matters. I avoided the theme, because observation has taught me that meanness of this kind is not peculiar to either sex.

Money greed can shrivel the souls of women as well as of men, but I have no hesitation in saying that few Canadian girls are fairly treated in regard to payment for their work. Neither their fathers nor mothers nor brothers can understand why they should ever have a dollar that they can call their own, and for which they should not render a strict accounting. They may render a strict accounting. They may be given good elothes and a piano, but that is regarded as sufficient pay-ment for all they may do. If there are sons in the family an effort will be made to give them all a start in life, but unless the daughter marries her outlook is anything but encouraging.

able. But what becomes of them after that? Some time ago I received a manuscript written by a typewriter on the subject, "Why Girka Do Not Marry." (As I think it over it sur-prises me to find how much this quee-tion has been thrust on we are as prise me to find how much this ques-tion has been thrust on my attention.) Her explanation was naive and direct They do not marry because this are not asked. She did not mention that a position that, if filled by a man, might enable him to support her as his wife. By their own perfectly justifiable struggles they are making their difficulties harder to solve.

their difficulties harder to solve. Hoursmout convergences Locarso There is another recess Locarso There is another recess Locarso to overlooked. Women respondent on the overlooked. Women respondent more quickly than men to the graces and refinement of civilization. The comforts and conveniences of city housekeeping are almost unknown in the country. Beyond having better stores to work with, many farmers' wires have to drudge and slave at their work in much the same way as did their pioneer grandmothers.

They do not foresee that with these advintages go many disadvantages that are even more grinding—such as the high desct of living. The more 1 was a start of the more 1 an convinced that to it the more 1 an convinced that to it the more 1 and the start their home the start is due to the number of the start of the start the outward appearance of palaces and the inward accommoding advinces and the inward accommoding advinces of the start of the start of the start oge-barns. They can be start as the start of th and the inward accommodations of log-barns. They can see their brothers being provided for, while no provision is being made for them. They dread the hard, narrow lives that are lived by their mothers, and are not to be blamed if they do your

are not to be blamed if they do. THE MEX CAN THO THE REMENT The only solution that suggests in self is that of providing more con-siderate fathers, brothers and hus-hands for country girls, and I say this withhou yish to appear humorous or to make a display of cheap gal-lanty. When a young farmer asks a girl to mary him she should have the sound same to look matters over the sound sense to look matters ove and see whether the home he is offer ing her has as many conveniences as he has in his up-to-date cow-stable. he

he has in his up-to-date cow-stable. There is no longer any reason why country girls and country women should not have every advantage that may be served in the eity. Besides, they can have gardens and outdoor life Bare of the earnings of the farms and the freedom that should go with prosperity, instead of being sacrificed to the almost universal greed of get to the almost universal greed of get-ting riches that makes so many men

The set anness universal greed or got-ting riches that makes so many men Mote. -The flocking of our girls in-to our towns and cities is one of the most serious phases of our rural de-population problem. Census statistics when the the nalmost every large city and that in almost every large city femal that makes. In rural sec-tions the proportion of the sexes is the exact proportion of the sexes is the exact properties the city to the coun-try girls prefer the city to the coun-try did walcome a discussion on this subject hy our readers. --Editor.



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#### The Ideal Farm Kitchen

The farm kitchen should fit the needs of the family for it is in many The family for it is in many connection with the kitchen is the respect the most important room in finish of walls and floor. From the the house. The evil effects of poor-standpoint of cleanliness and ease of b cooked foods are not only physical care. light-colored painted walls which paradimals and moral as well. Our can be elsened with quantities of soap and the same standpoint care by the same standpoint of the same start of th

#### compact kitchon

replaced the dows to make this room a light, cheer-The first thing to be considered in connection with the kitchen is the

#### Household Suggestions

When cleaning furniture wipe it over with tepid, soapy water, and dry it before polishing with Lees-wax and turpentine.

Turpentine is an excellent clean-ser for many things. It will remove the marks of black lead from a marble mantlepiece, amongst other

February 22, 1012

good plan to keep an account book and enter, with regularity, all house keeping expenses, adding up accounts every evening and making a weekly Scratches on tables are very

Southese on tables are very an-noving. Keep a supply of rounds of lark green fett, on which to stand pill. Boy vases, and so en. These pills for wases, and so en. These polished tables, and will rathy save polished tables, for marking, a polished table. The blotting-part should be cut the same size as the various doilies. It takes the place of chostne mark

asbestos mats

things. Young housekeepers will find it. DELIVERY-PAID MERCHANDISE

FARM AND DAIRY

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#### February 22

#### Make Count

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#### February 22, 1012.

#### Make Country Life Attractive

Make country Life Attractive The work of the farm home, the farm school and the farm church all mast be re-directed. They must come to teach the young people of the country in terms of their life work. Country boys and country girls must be brought up to speak in terms of action, of their career as the landed gentlemen and gentlewomen of a great commonwealth. They must gentlemen and gentlewomen of a great commonwealth. They must learn to make good on the farm or they never will be kept there. The first change must come in the

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father and mother to plan the week's father and mother to plan the week's work and the year's work with the boys and girls. They should be made a part of it; given an interest in it.

BOYS WILL GET AMUSEMENT Then heads of farm families should Then heads of farm families should direct the amusements of its should dren. Boys should not be permitted to go to town and head to smoke eigarettes, swear and take the descons for the penitentiary, think-ing they cannot have any fun on the

farm. Every farm boy and girl should be given one-half day off every week, a regular holiday that he can depend on, to apend in baselall or football or other outdoor amusement. Bealthy sports, abould be encouraged. Boys and girls should be encouraged to get together and form teams. That gives

together and form teams. That gives a social side to farm life. We should lighten the work of the farm woman. She is a drudge if there over was one. The farm good falls heavier on her. The men good follow. She stays at home with the bilder. She is given no modern helps in her work

THE BEST INVESTMENT NEGLECTED THE BEST INVESTMENT NEGLECTED Running water is not installed for her. Instead of helping his wife, the average farmer buys another piece of land. She never is taken to a grange meeting.

arangeo meeting. The day is coming when there will be laundriss the couptry just as there are dained in the washing is the hardest part of the washing is the hardest part of the washing is the drudgery. She catches cold on Mon-day and is lame all weak. The average country shool does not help to fit country hoys and girls to enjoy farm life. It teaches every-thing except what is to be done when the aver. It should not en-

thing except what is to be done when school is over. It should not en-deavor to fit a few for professional life, but train the great majority for

life, but train the great majority for country work. The country young people must be taught not in terms of brick paving and yards of cloth and foreign ex-change. They must be taught in change and anitation.—Prof. P. G. Holdend, before the National Country Life Congress.

#### ... The Value of Salt

Salt may be said to be a panacea, so many and varied are its uses.

many and varied are its uses. A pinch of salt on the tongue, fol-lowed 10 minutes afterwards by a drink of cold water, will cure a sick headache. It hardens the gums, makes the teeth white and proves generally efficient. By adding a little salt to the water,

out flowers may be kept fresh much longer than usual.

longer than usual. By using very fine, dry salt as one would snuff, bad colds, hay fever and kindred affections may be relieved or

shallow teaspoonful of salt dissolved in a cup of hot water will re-lieve dyspepsia, heartlurn and indi-

Strong salt and water will revive an

unconscious person quicker will revive an unconscious person quicker than whisky or brandy. Sait and water held in the mouth will stop hemorrhage of the gums af-ter tooth extraction. By washing the mouth and there

by washing the mouth and throat with salt and water before and after using the voice, public speakers and singers find their organs greatly

Salt and pineapple juice will cure mild cases of gastritis.

Coarse, damp salt sprinkled liberal-ly over fine rugs and carpets and then swept up will clean and brighten them quicker than anything else. ...

When washing the outside of win-dows in cold weather use kerosene. and avoid putting the hands in water. One transfer is given.

FARM AND DAIRY



681 Design for an Embroidered Edge two inches wide. Three yards are given.

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630 Design for Braiding a wide Border and narrow Edge. One yard of the border five inches wide and two yards of edging one inch wide are given.

\* \* \* \* \*

628 Design for Embroidering Insertion Two and One-Half Inches wide Two and one-half yards are given



618 Design for an Embroidered Bag in Envelope Shape. The work can be done in beads, in solid embroidery or in outling or cable stitch.



worked in French knots and satin To be or with satin stitch and narrow braid.





that is made mannish style is smart one for many occasions. Here is a model that is made model that is made with the new turned over cuffs and col-lar, but the collar is adjusted over a neck-band, conse-quently, if it is not becoming it can be

becoming it can be omitted. For the medium size will be required 3.3.4 yards of mate-rial 27, 2 yards 36, 1.5.8 yards 44 inches wide

in sizes for a 34, 36, 38, 40, 42 and 44 hust GIRL'S TUNIC DRESS, 7319

The tunic dress is one of the newest one of the newest and prettiest for lit-tle girls. This one is tle girls. This one is equally well adapted to one material throughout and to combinations. In the illustration it is made of a striped volle and the tunic is made of the tunic is

This pattern is cut in s 8, 10 and 12 years of age rn is cut in sizes for girls of

The skirt that is made with inverted plaits at the seams is much liked. It pro-vides the straight lines and slender effect that are fashion-able and at the same time it allows free-dom for walking. 11111

dom for walking. For the medium size will be required 51.4 yards of mate-rial 27, 53.4 yards 36 or 44 inches wide, the width at the lower edge is 3 yards, 21.8 ds when plaits laid. vards

This pattern is cut in sizes for a 22, 24, 25, 28, 30 and 32 inch waist measure.

#### GIRL'S DRESS, 7298

DRUSS, 728 Kimono sleeves that are seved to the blouse are among the latest features to be found in girls' dreases as well as in those of their elders. Here is a frock that shows them and that is just be.

For the 12 year size For the 12 year ense will be required 6 14 yards of material 27, 4 yards 36, 3 1-2 yards 44 inches wide with 1 1-2 yards of banding to trim as shown in the front view, 3-4 yard of all-over lace to make as shown in the back

This pattern is cut in sizes for girls of 10, 12 and 14 years of age.

volle and the tunic is made on the straight while the skirt is made on the cross, but the tunic could be made of one ma-terial with the skirt of another equally well.



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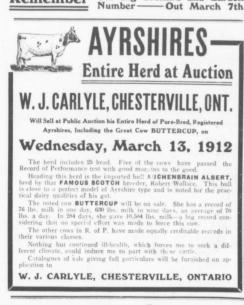
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### \* OUR FARMERS' CLUB PRINCE EDWARD ISLAND

PHROE EDWARD ISLAND INGS CO., P. E.I. CARDIGAN BRIDGE, Feb. 5.—We are having fine winter weather at present and good roads. Farmers are husy haul-ing home freewood, coal and limestone. A large quantity of the latter is barm very spring for top-dressing for wheat and oal land. Our winter steamers have every spring for top-dressing for wheat and oat land. Our winter steamers have been stuck in heavy ice for three days. And the mails are coming by the old re-liable Cape route. from Cape Torptine on the N.B. side to Cape Traverse on P.E.I. The boats used are something like on the N.B. side to Cape Under them. When they come to more under them. and pull them like sleights We will nev-er have continuous communication with have continuous communication with the main and until we have a tunnel. The distance is only eight or nine miles. There are not many fat cattle selling yet, but there are quite a few being fat-tened for spring market.-H.P. OUEBEC.

QUEBEC. COMPTON Co. QUE. COMPTON Co. QUE. Very cold and stormy weather at pre-ent, but the snow is a welcome sight to the lumberme and teamsters, as there has not been much snow until very late-ly. Eggs are very high and are scarce. Pork is & to \$1-2c a lb.; hay, \$9; cats, 50c-Hi.G.C. ONTARIO

#### HASTINGS CO., ONT.

HASTINGS CO., ONT. SUNFEY CROSSING, Feb. 12.—The wea-ther was as severe that there was prac-tically no market. Fresh ergs sold at the to 46c; butter. 46c; potatoes, 81.75; hays, 84t to 551; live hore, 86.86; deal, sold at the severe in the severe in years and has continued so long and steady that what was supposed to look like abundance of feed begins to look 8FEBLING. Do, the Judge the severe in

elack now.-J.K. STERLING, Feb. 15.--Under the aus-plexs of the Department of Agriculture a lecal box packing school was hold in Sirling Town Hall on Feb. 5th, 6th and Tch. Messers. W. P. Kyd of Simoce, and Leslie Smith of Wellington, Prince Ed. ward County, were in charge, and both were delighted with the large attendance and graat interest takon. Am many as ward coolinity, were in charge, and both were delighted with the large attendances and great intervest taken. As many as and great intervest taken. As many as and great intervest taken. As many as and great for the secolent work of many of the anateurs in the blain packing and the more difficult work of wrapping and the more difficult work of wrapping and their pack the following students secured intervestight of the secolent work of many of the anateurs in the blain packing and the secolent work of many of the more difficult work of wrapping the intervestight of the secolent work of many of the box packers wission. Intervestight of the secole the box packers wission. Intervestight of the secole the box packers wission. Intervestight of the secole the box packers barries of the second FITERBOR CO. ONT. DUURO, Peb. 15.-MF Maurice Officien has recently purchased from T. H. Has-wid. Markham, Ont., the imported Clydeable stallion Drumber Chieftain [13,622] (16,26), sired by Danuer James,

February 22, 1912.

February 22,

HOLS

Summer H

Present offering: all. 10 imported bull calf from a from a 29/2-1b. months bull from old and by Sir main stock bull, record 2-year-old i If you are inter

If you are inter and see the only there are 7 cows

frains met when

D. C. FLATT & SE R. F.

a few young cow spring. BRO

LAKESIDE DAIRY

Offers two bull ca

one 1 month old.

bull calves for the few females. W. F. BELL, BR Ottawa Bell Pho

**Leslie** Far FOR SALE-Two lee, one from a 2 other from a 24 lt individuals and hi on both sides. W

w. E. THOMSON, R. F.

HOL

Holstein Friesian Asso

**"LES CHEN** 

HOLSTEINS-Winn t the pail. Gold

Fair. They combine Co duction. Bull and Heifer ners for sale. DR. L. de L. HARW

VAUDRE

butter each i

7 cows a

HOLST

by Prince dam has a sired by Prince whose dam has a ter in 7 days and aughter of Henge 15 A.R.O. daught 30 lbs. each. The from dams havin each at 3 years of

the son of the champion size Born O'Buchlyrie that sold lately for \$47.56 His dam is by the noted Danure Cough by the renowmed Baron's Pride. Drum beg Chieftain is a low-set, thick colt and would be a topper in any company. The weather keepse cold, and sleighting is a cellent.-A.L. WELLINGTON CO., ONT. WELLINGTON CO., ONT.

FERGUS, Feb. 12.—This is the c winter we have had for many years, people do not remember of such people do not remember of such ther, the mercury being as low as 3/ grees below zero. Turnips and pot-have frozen in roothouses, where were never known to freeze before is very scarce and high in price. T are a number of auction sales and kinds of stock sells high. There as number of horses being sold for prices to go west. Beef cattle are in price. Hogs are rather low. Pot are high and scaree, selling at 1 bag: butter, 27c; eggs, 28c.--W.A.M.

oug: outper: zic; eggs, zzc.-w.A.M. WOODSTOCK, Feb. 13.-We have had siege of extremely cold weather, but is ingle are over. They have been mic appreciated, but with not much a larg appreciated, but with not much a larg turn-out as usual on account of the col-ter-out as usual on account of the col-teroout as used on account of the col-teroout as us and the col-teroout as used on account of the col-teroout high at present. Not many are f on account of the shortage in feed. ter and eggs are selling at 35c on market in Woodstock.-A.M.M.L. 1

SIMCOE CO., ONT. ELMVALE, Feb. 10.—The weather in a district has been extremely cold throu

out January, and so far in February, thermometer registering as low as 35 grees-lower than in many years. appears to be sufficient, but prices kee up. Hay, \$14 to \$17; potatoes, \$1,25 y \$1.50 a bag; oats, 50c to 52c; butter, 3c eggs, 30c.-C.S.B.

MIDDLESEX CO., ONT. APPIN, Feb. 10.—Cold weather still co inues. The thermometer is 24 degree elew to-day. Feed continues scarce at Arrestinues. The thermose tinues. The thermose scattered below to-day. Feed continues scattered below high. Hog prices are very little memory bigh. Hog prices are very little to the scattered below to be the scattered below to Very mgn. nog process are very fittle g ducement to farmers to convert feed a from 11-4c to 11-2c a 1b. into 61-4c h con. It needs summer weather to mak the cost of finished product come an where near the price of feed. Outlost does not seem good for the packer. (a

does not seem good for the packer. Us the are very scarce. Half fat stuff is pain ing out for butchers' market. Dairyms should have no complaint as to the is crop available for 1912.-C. MacF. ESEX CO. ONT. HARBOW, Feb. 8.-Hogs are deliver at \$6.50 a cwt. but few coming in Or do cars of tobacco have been shipped as easy a cwi. out two coming in the state sease a cwi. out two coming in the from this point during the past 10 day. Hay is being shipped every veck at fes-\$10 to \$30 aton. The farmers are an ing advantage of the good alsighing id do all kinds of teaming—W.A.B. HEPWD BRUCE Co. ONT. HEPWD BRUCE Co. ONT. HEPWD BRUCE Co. ONT. Here the state of the state of the state one of the coldest winters we have an hord. Snow is very deep, but there is been no trouble in keeping the rad broken so far. Large quantities of is are being taken out. It solls at \$15 the barn. Hogs sell at \$5,15 and the but there is ultite in them is the could Butcher cattle sell at \$5 to \$8.25.-J.K.

AUCTIONEER Holsteins and sellin sold sales from the My experience is u HAEGER. ALGONO

**High Testing** Lynden Holst

Lynuch noist 25.77 ibs. of butter per cent. fat. His A.56 per cent. fat. H. Ning in Canada. Buy a bull to hubrother to the aboo him from a 77.35 il cent. fat at il year or din Canada by a Also bull celves Also bull calves. Within 1 mile of st S. LEMON. L

RIVERVIE

Offers bull calves f SIRED BY KING one J nearest day 18 LBS. BUTTER in 30 days fro eding, at except make ro P. J. SALLEY, LA

25 Pure Br years of age. of condition, by all due to : bunch of heir of them Pr Sir Francy Cs f great qualit hose milk stoo hose milk stoo is met if advis . CONNELL, I Telephone.





# More About Discs (Continued)

To get full advantage of the cut the disc makes, the shield must also p well down to the bottom of the disc carrying the seed with it and deposing in the bottom of the furtow thus opened, and not merely let it dribble out and of way behind the disc. The discs run, on chilled bearings provided with dust provided indicid compression cup. These

dust-prior hard-oil compression cup. These cups hold a large quantity of hard-oil suf-ficient for thoroughly lubricating disc bear-ings in planting many acres. The hard oil stays where it is put, and keeps the dirt

Although a Disc Drill is not supposed to he required to sow Broadcast still in all farms there are times when it is necessary or advantageous to sow broadcast, and in order to provide for this the disc can be set at a greater angle so that the earth in-stead of being merely opened is turned over thus covering the seed which is sown in form of the time. front of the discs

If you are going to buy a drill this year be sure and see our Agent; he will be nieased to talk this matter over with you.

The Peter Hamilton Co., Limited, Peterh



February 22, 1912.

e Baron er \$47,500, ire Castle Drum oolt and any. The ng is er

ars. Most uch wea-as 30 depotatee e. Feed Ther and al for good are high Potatos

A.M. 1.50

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**HIMMET AIM ANY SCENES** - Sent offering: 15 yearing backets in - 10 imported heifers (some bred), -i all from all yich dam, -bull calf from all yich dam, -bull calf from all yich dam, -and by Sir Amiral Once 5 years and by Sir for yearly production. year are interveted in Holdstina come or are yours averaging almost 28 ha. or each in 7 days. Every record made the farm. Trains met when advised.

Bell phone. D. C. FLATT & SON, HAMILTON, ONT. R. F. D. No. 2.

HOLSTEINS

#### HOLSTEIN BULLS

HOLSTEIN BULLS Sirod by Frince Inserved Priteris, whose dam has a record of 33.65 lbs. but-ter in 7 days and is the highest records the start of the start of the start of the start the start of the start of the start of the start the start of the start of the start of the start the start of the start of the start of the start a fors young code the start of the start a fors young code the start of the start of the start a fors young code the start of the start of the start a fors young code the start of the start of the start a fors young code the start of the start of the start of the start a fors young code the start of the start of the start of the start a fors young code the start of the start

#### LAKESIDE DAIRY AND STOCK FARM

Offers two bull calves, one 5 months and one 1 month old. Book your order for bull calves for the spring's crop. Also a few females.

W. F. BELL, BRITTANNIA BAY, ONT. Ottawa Bell Phone.

**Leslie Farm Holsteins** FOR SALE-Two young bulls fit for serv-ice, one from a 21 lb. four-year-old, the other from a 24 lb. cow. Both are good individuals and have high testing dams on both sides. Write for further infor-mation wation. W. E. THOMSON, WOODSTOCK, ONT. R. R. No. 7.

Purebred Registered Purebred Registered HOLSTEIN CATTLE The Greatest Dairy Breed step vos FREE ILUSTRATE BOOKLES Holardin Friesian Asso., Box 148. Battleboro Vt,

#### "LES CHENAUX FARMS" VAUDREUIL, QUE.

HOLSTEINS-Winners-in the ring and t the pail. Gold Medal herd at Ottawa Fair. They combine Conformation and Pro-Bull and Heifer Calves from our winboli and Honory pers for sale. DR. L. de L. HARWOOD, D. BODEN, Prop. Man.

AUCTIONEER My lifetime has been Relations and selling Dairy Ontile. Have sold sales from the Atlantic to the Pacific. My experience is up to you.-ROBERT E. RAEGER. ALGONQUIN, LL.

High Testing Nidder Korndyke De Lynden Holsteins Nidder Korndyke De Lynden Holsteins Nidder A. Daw 137 lbs. of butter in 7 days testing 450 procent, att. His ester. Bonste Poech 149 procent att. His ester. Bonste Poech 140 procent att. His ester. Bonste Poech 140 procent att. His ester. Bonste Poech 140 procent att. Jas 140 process att. Bonste Sentanting att. Sentanting att. Bonste Sentantin att. Bonste Sentan

S. LEMON, LYNDEN, ONTARIO

RIVERVIEW HERD Offers bull calves from 2 to 10 mos. old SIRED BY KING ISEBELLE WALKER. whose 5 nearest dams and sister average 30.18 LBS. BUTTER IN 7 DAYS and 116.87 10s. in 30 days from dams of likewise breeding, at exceptionally low figures, to

P. J. SALLEY, LACHINE RAPIDS, QUE.

**25 Pure Bred Holsteins** Fure brea molisienns years of age. Well bred and in of condition, bred to a good bull. , all due to freehen in March. A bunch of heiters. Will sell a few of them Price reasonabe. Sir Francy Calamity (778), a grand d great quality. Son of a 25.76 b. hoes milk stood 4.3 per cent. fat. met if advised. CONNELL, ROEBUCK. ONT.

ario. D ....



FARM AND DAIRY

Toronto, Monday, Feb. 19--Prade re-turns for the last week have been some what uneven. In some branches of the wholesale business orders have been away shead of previous years. In othese no improvement is noticeable. On the whole, however, prospects for a good sea-son's frade are brighter than they were a few weeks ago.

A feature of the produce trade has been the importation into Canada of New Zea-land butter, the high prices now ruling making the shipment profitable. The immaking the snipment prohable. The im-portation may be ascribed indirectly to the great increase in home consumption and also to some extent to the shipment of cream to the United States, which is now some on

and also to some axient to the ahipment of erean to the United States, which is a for even to the United States, which is the prast week theory whost and coarse grains steady, eggs and dairy produce atronger, cattle on the same level as last week and lambs at a record price. The tonse of the wheat's wheek continues strong. A general atrike in the Argen-tine has made altipments from that coun-try impossible, and this is at present the atronger, statute in the wheat market, however, is strong, due to a shortage in the world's wheat ereor, and no great destine is a made wheat or and no great destine is a strong due to a shortage in the world's wheat ereor, and no great destine is expected. Guotations are us 5, 81.66; Manthos for do, 2, 81.60; % demand for Ontario wheat is good, but there is little moving. Deslare guote % to 700 coulder.

# HAY AND STRAW Prices are firm at last week's decline. Dealers are paying for No. 1 hay, \$65.69 to \$15; No. 2, \$13.50 to \$15; No. 3, \$10.00 to \$11; baled straw, \$8.50 to \$9. On the retail market choice timothy relin at \$30 to \$33; clover and mixed hay, \$17 to \$39, and straw, bundled, \$17 to \$13; Tarers is a firm feeling in the hay market at Mon-treal. Supplies are light, but sufficient to meet all requirements. Nominal quo-lations are: No. 1, \$13.60 to \$16; No. 2, \$13.50 to \$15; No. 3, \$10.50 to \$11. POTATOES AND BEANS

POTATOES AND BEANS POTATOES AND BEANS It is unusual to find food stuffs from Great Britain being imported into an agricultural country such as Canada, but such is now the case. Several large shipsuch is now the case, several large ship-ments of Irish potatoos have reached Montreal and are being distributed throughout Canada. While these ship-ments will prevent further abnormal rises in price, it is not expected that they will have the effect of lowering quo-tations. they will have the effect of lowering quo-tations. Dealers now quote Ontarios at \$1.65 to \$1.70 a bag on track, and \$1.75 out of store. Delawares are quoted at \$1.85 and \$1.50. At Montreal high prices have caused an easiler feeling in the mar-ket. Fotatoes are now quoted at \$1.65 to \$1.79 on track.

Beans are quoted at \$2.25 to \$2.30 for primes and \$2.35 to \$2.40 for hand picked. At Montreal three-bound pickers are \$2.16 to \$2.17. EGGS AND POULTRY

EGGS AND POULTRY At the present time Ganach is depend-ing inspely for a supply of fresh eggs on the southern states, for which dealers are paying 376 to 46c. Canadian eggs are almost unoblishable. What for are com-ing on the market change hands at 400 to 400 for strictly new laid. No. 1 storage stock is quoted at 36c. At Montreal also there are no Gandian eggs to be had. United States eggs are selling at 400 wholesalc. wholess

reese, 156 to 166. "We want the to 166 and DAIRY PRODUCE It is not expected that the importations of New Zealand butter, which are now this feature of the dairy preduce trade, prices. In fact, eccentre with present vaneed to since the arrival of the for-eign butter. Dealers now goote cream-ery prints at 35c to 37c; sollds, 35c to 34c; dairy prints, 35c to 35c, and inferior, 35c to 35c. Others are quoted at 1634c for trains and 15c horders.

Wills and D 1-26 for large. HORSES An average of the prices being realised for horses on local exchanges area as for lows: Choice heavy dratters, \$200 to \$310, fair, \$137 to \$200, mod. weight, \$10 to \$200; aericultural, good, \$150 to \$200, \$300; drivers and acadelrs, \$16 to \$270. LIVE STOCK

LIVE STOCK Steady, healthy, with demand about equal to supply, sums up the condition of the live stock market. Receipts last equal to supply, sums up the condition or the live stock market. Receipts last week were moderate and steadily absorbed at the prices ruling on the week previous. The quality of the cattle was somewhat better than has been going lately and the average of the prices paid somewhat hickner.



#### AYRSHIRES

CALEDONIA SPRINGS HOTEL CO. Has for sale two Ayrshire bull calves of 11 months, of good parentage, one from Clio R.O.P. Test 8,614 lbs. in 284 daya. Price, \$58 each.

Also two bull calves of 6 and 8 we of good parentage, registered. Price, each. Apply MANAGER, CALEDONIA SPRINGS, ONT.

#### LAKESIDE AYRSHIRES

We have a number of fine young bulls of different ages, all sired by our im-ported bull and the majority of them from dama entered or qualified for the record of performanc. To make room for the winter we are prepared to offer these at attractive prices.

#### LAKESIDE FARE, PHILIPSBURG, QUE EO. H. MONTGOMERY, Prop. 164 St James St., Montreal

CITY VIEW AYRSHIRES.

R. O. P. cows and two-yearold heifers for sale: one yearing bull and a fine lot of 1911 bull caires. Prices reasonable. Write or phone. JAMES BEGG, R. R. No. I, St. Thomas

CHOICE AYRSHIRES

A few young bull calves for sale. Write for prices. K. ONT. Wholesale quotations for dressed ponl. P. D. McARTHUR, North Georgetown Grenville Co. try are as follows: Chickens, 13c to 14c Howick Station on G. T. Ry. Q Que.

#### AYRSHIRES

1)

#### SUNNYSIDE AYRSHIRES

Imported and home bred, are of the choicest breeding of good type and baye been selected for production. THREE young bulk dropped this fall, sired by "Nother Hall Good-time"-26641-(imp.), a wate a set female of various ages, of all, write or more and see.

J. W. LOGAN, Howick Station, Que (Phone in house.) 1-6-1

#### AYRSHIRE BULLS



AYRSHIE BULLS Two arty 1911. built of performance over an of performance over a very fine. The second of performance the second of performance a very fine. The second of the second the second of the second of the plane of the second of the the second of the second of

## **Ayrshires For Sale**

Bred for production and profit. Special Offering 3 bulls, 10 months old, weighing old and one four-year-old stock bull. Also some choice B.R.P. Cockerels. Write GEO. H. STOKES, Oakland Stock & Dairy Farm, Tweed, Ont Bell Phone.

Ayrshires & Yorkshires For sale, Ayrshires all ages, including three buils fit for service, all bred from deep milking stock. Torkshire pigs all ages. We are now booking orders for pigs to be shipped in March, April and May Apply to Hon. W. Owens, Proprietor.

Apply to Hon. W. Owens, Proprietor. RIVER SIDE FARM, MONTEBELLO, QUE. Robert Stinton, Manager

GETTING TIRED? Are you getting tired of waiting for hyper to come adoug Hort waiting for hyperelare do: Go after them. The bestelere do: Go after them. The transformed the second second second or advertising release within reor reach, and or advertising release within reor reach, and or advertising the cent in Ferra and Dairy, and reaches nearly 13.000 possible hupers. Better send youral to do - ferra ad Mark, Reiterse, add

THE SPRIKCBANK HERD OF AYRSHIRES The or introduces that any other herd in butter producers than any other herd in America. A few choice buil caives from record breaking dams for sale at reason-able prices. Address A. S. TURNER & SON.

Ryckman's Corners, Ont 3 miles south of Hamilton.

#### **Ayrshires**

World's Champion herd for milk and production. Some young buils and buil acives, all from S.O.F. cows for saie. A grandson of Frimrose of Tanglewyid in Ubbin State BROS., Tanglewyid Farm ROTEAT. ONTABIO

**Burnside Ayrshires** Winners in the show ring and dairy tests. Animals of both seres. Imported or Canadian bred, for sale.

Long distance phone in house. R. R. NESS,

HOWICK, QUE.



Lump Rock Salt. \$8.00 for ton lots, f.o.b. Toronte Toronto Salt Works, 128 Adelaide St. E G. J. CLIFF, Manager Teronto, Ont

AYRSHIRES For a f good type and breeding not akin. YORXSHIRES Also proved Sires, different age: Orders booked for Spring Cows and Heifers of the and Feb. 1912, pigs of book write or "pho.a for prices.

ALEX HUME & CO., MENIE, ONT. Hoard's Station, G.T.R.

## HOLSTEINS FAIRVIEW FARM HERD

Too much money is spent every year for poor bulls. Why not buy a good one? Sons of Pontiac Korn-dyke, Rag Apple Korndyke, and Sir Johanna Colantha Giadi for sale: 150 head in herd. Come and see them or write

E. H. DOLLAR, Heuvelton, N.Y.

#### HOLSTEINS



GORDON H. MANHARD. Manhard, Ont.

If you are wanting HOL STEINS, any age, either sex.

WOODLAND A son of Netherland Person 2000 A son of Netherland A son of Asagirs Schulling De Kol, R. of P. records at 2 yrs. 11371 Hs. milk, 537 ther to Woodland Queen De Kol, R. of P. records at 2 yrs. 11371 Hs. milk, 537 ther to Woodland Queen De Kol, R. of P. records at 2 yrs. 11371 Hs. milk, 537 there to Woodland Queen De Kol, R. of P. R. B. M. AN PATTER & 2008. R. B. M. AN PATTER & 2008. Ont.

FOR HOLSTEIN BULL CALVES

SALE MULDICIN BULL GALVES Bull call, hors Feb. 2, whose four near-est dams average 22 ba. of butter in 7 days. Another born May 15: dam first cow in Ganada of her age to make 20 ba. of butter in 7 days. Bull call form Jan. 10: dam. daughter of dam of number 2 calf with official record at 2 years and 33 days of 14.58 bb. butter in 7 days. Also two-year-oid steck bull. David Caughell, Yarmouth Centre, Ont."

STOCK MARKS. Metal ear tags FOCK MARKS. Metal ear tags for cattle, sheep and hogs. A splendid safeguard against bother and loss. Sample and circular free, write for them. F.G. James, Bowmanville, Ont.

Live Stock Auctioneers We are in a position to handle your sale

of cattle in an up-to-date manner. Especially qualified to sell Holsteins.

F. H. McCullough & Son NAVAN, ONT TWO GOOD HOLSTEIN MILCH COWS Real good milkers, sound in every way One due to calve March 3rd, the other April 12th. The best I've got. Must make room for young stock. Write quick if you want them or come to see them."

J. A. RUTHERFORD, PETERBORO, ONT. B. B. No. 5. Lot 21. 1st Con. of Emily,



E. B. MALLORY, Frankford, Ont.

RIVERSIDE Herd headed by Prince De Kol Posch; dam was cham-

HOLSTEINS King Johanna Pontiac Korndyke: the records of dam and two nearest King Johanna Pontiac corndyke; the records of dam and two nearest ams on sire's side average 32,12 Be. His dam s sister to two World's Champion 37.H Cows, 'ontiac Clothilde De Kol and Pontiae Pet. Young Bulls and females for sale.



UNITAL HUDSLEIN HETU Borne of the yeong things that should make good at maturity. Calamity Teaks bekol 8.0.P. at 5 years, 5 months, 1373 bekol 8.0.P. at 5 years, 5 months, 1473 bekol 8.0.P. at 5 years, 5 months, 1473 bekol 8.0.P. at 5 years, 5 months, 1453 bekol 8.0.P. at 5 years, 5 months, 1454 bekol 8.0.P. at 5 years, 5 months, 1545 bekol 9.0.P. at 5 years, 5 months, 1545 bekol 9.0.P. at 5 years, 5 months, 1545 bekol 10.0.P. at 15 years, 10.0.P. at 1

EDMUND LAIDLAW & SONS, Ayimer West, Ont.

#### FARM AND DAIRY

price is incritable. An average of quo-tations in about as follows in guiders, its, choice, 54:40 to 46.75, good, 54 to 84.30; com. the med., 38.75 (16.55.35, intole-ers' cows, choice, 54.75 to 55.35, intole-ers', 63.50; 16.87.75; 16.55.55, intole-rs', 16.55price is inevitable An average of one

are \$4 to \$8. Hogs are steady at the old unotations— \$6.35 to \$6.40 f.o.b. country points, and \$6.70 to \$6.75 on the market. Meagre offerings and a better quality of animals boosted prices at Montreal 25c

to 50c. This increase was noted at the first of the week and prices ruled steady to the end. The demand, however, was to the end. The demand, however, was for good quality animals, drovers having difficulty in disposing of 111 finished beasts. Quotations are as follows: Butch-er cattle, choice, 86.50 to 87; com. to 85.50; med., 83.50 to 84.50; buils, 83 to med., 83.60 to 84.50; buils, 83 choice millers are usuiced at 875 to 5 choice millers are usuiced at 875 to 5 choice beast of the state state of the stat 85. Choice milkers are quoted at 875 to 880; com: to med. 850 to 856, and aprim-ers, 835 to 845. Small meats are in great demaind, lamb heing quoted at 85.80 to 871, and 275, and and a state and 873, and 873, bit and a state and a state Buffal Live Stock: Prime stern, 87 to 881, butcher grades, 81 to 85.75; choice lambs, 86.75 to 85.00; abec, 92 to 84.00; hegs, Yorkers, 85.40 to 85.40; mined, 86.85 to 85.40.

#### MONTREAL HOG MARKET

MONTREAL HOG MARKET Montreal, Saturday, Peb. 17.—There has been practically no change in the market for live hoge this week, prices being firm-by maintained under a good demand from packers and small supplies. An active trade has been done with sales of select ed lots at \$7.25 to \$7.35 as wrt. wighed off ed lois at \$7.25 to \$7.55 a cert. wighed off car. On the other hand, a stronger feel-ing has developed in the market for dressed hogs, and prices have advanced be a evel, which is due to the continued be a evel, which is due to the continued be a evel, which is due to the source of \$9.90. A good trade for the season con-tinues to be done in all lines of cured meant, there beirs a stady demand for as in the star as a star not as harge as in the star). as in former ye rule very steady.

#### GOSSIP

THEY KNOW THE GOODS P. II. McGinners of Nah & Ions, the live stock, husinonerse of Nah & Ions, the live stock this issue of Parm and Dairy are com-mencing to advertise their services, are engaged in the dairy business and bread Holsteins. They are able to handle a sail of dairy catile as seel as the best seen at the McGin McGin and the been at the McGin McGin and the seclation and particularly well vread in Holstein lore of the Holstein Spread study of pedigrees. Messrs. McGullough refer those interested in their asrees to W. C. THEY KNOW THE GOODS noisein fore through years of study of pedigrees. Messus. McCullough refer those interested in their services to W. C. Edwards & Co., Rockland, Ottawa; B. Rothwell, Hilledale Farm, Ottawa, and W. E. McKillican, St. Elmo, Ont.

HOLSTEIN BREEDERS ORGANIZE An enthusiastic and representative meeting of Norfolk Holstein breeders met An enthusiastic and representative meeting of Norlok Holstein breeders met on Fobriary 6th in the Con-cell (Lamber, Sirkows, and organized a Norlok Holstein) breeding and sentences of the sentences hereding and may be the sentences of holying, breeding and selling first-lass for Norlok to any sentences of the sentences of the sentences of the sentences of the Nallory, secretary of the Belleville dis-tion the sentences of the sentences of the hallory, secretary of the Belleville dis-tices in the sentences of t

James Cohoe, Courtland. Hon. Director, J. E. Smith, Simcoe.

W. J. CARLYLE'S SALE OF AYRSHIRES W. J. CARLYLE'S SALE OF ATREMILES On the 13th of March next Mr. W. J. Carlyle of Chesterville, Ont., will sell at public auction his entire herd of pure bred Ayrshires. Of this herd, which numpublic auction his entire herd of pure bred Ayrshires. Of this herd, which num-bers some 25 head, there are five cows that have passed the Record of Perform ave passed the Record of Perform est with good, safe margins to the

good. The milking performance of the cow Butter Cup during her last milking pe-riod, is very exceptional if not unique. In one day she gave 76 lbs. of milk, in

#### Cost \$1.44 - Brought 93

Editor, Farm and Dairy. It may be intoresting for you to know that we had 93 applito know that we had 35 appli-cations to a recent ad. we had in your paper, and socured all three men we wanted. Farm and Dairy is certainly the pro-per medium for reaching the people in this dairy business.— Ideal Greamory Co.—W. F. Davry, Manager. Portage La Ant, Simon chocure, Utilia

almost obscure 8 m littia An almost obscure fitted classified advertisement in Farm and Dairy classified col-umns, costing the advertiser only \$1.44, made this Company \$1.44, made this them to an only \$1.44, made this Company happy and added them to an already long list of satisfied people who have found out from actual experience that it pays

to advertise in Farm and Dairy. It is quite remarkable in these days of scarce and high priced labor that a small classified advertisement should bring as many as 93 applications for a position in the dairy business. Words to the wise are suffi-clent. We will not require to

clent. We will not require to urge anyone who knows of the value we have for them in these columns to take advantage of our service when they have anything to sell, or want a man, or something they have not, and which some

or something they have not, and which some one of our people may have. Remember your ad. in our classified columns costs only 20 a word, osth with order. Display advertising space in Farm and Dairy costs you only 86 per inch, this before our do flat rate, which in no wise dis-criminates against any adver-tiser. This takes your message to over 13,000 possible buyers.

nine days she gave 630 lbs. of milk, an average of 70 lbs. a day. In 30 days she gave 1.694 lbs. of milk, an average of 63 lbs. a day for the month and in 284 days 1bs. a day for the month, and in 204 days ab: gave 10.564 lbs., or an average of over 37 bs. a day for the whole milking peri-ed, which is a magnificent record indeed, considering that no epceial effort was made to force her. The others that were placed in the test made equally orediz-able records in their various chanses. Watch these columns next week for fur-tion the interval. Watch these columns next week for fur-ther information about the animals to





#### February 22

man HOLSTEIN

Farm and Dai of The Canad Association, al are readers of t the Association items of interes for publication

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SALE DA April 4, 1912: 5 cood, Ont., Hoist

March 6, 1912:

March 6, 1912: Roston, Ont., He March 26, 1912 Ont., Holsteins. / March 27-O. Ont., Holsteins a March 14, 1912: Ont., Holsteins. March 27, 1912: ville, Ont., Holsty

#### HOLSTEINS AVONDALE FARM HOLSTEINS Arthur C. Hardy, Prop.

We offer bull calves, all ages, and a out of tested dams. One is a son of S Johanna Colantha Gladi, being a gama son of Colantha Johanna Lad and Por tiac Korndyke, and from a 25 lb, three year-Old dam.

Also HORN DORSET SHEEP and YORS Addenue all commondance de

H. LORNE LOGAN, Manager

Brockville, Ont.

AGENTS We will pay you well toin in your district for new

FARM AND DAIRY, Peterboro, Ont. FERNDALE STOCK FARM Clydesdale Horses and Holstein Cattle

Gydessate Morses and Holtzin Cattle For sale-Pour Bulls. Bo monthe oid, and by Korndyke King Rohlinged, who fo closely related to Pontize Korndyke, who sized two 37-th, cows. Also, 20 Grade Cows, due to freehre in January: 15 Grade Hellers, rising 2 yeas old, bred to freehre in March and April PIERHELLER BROS., MT. ELGIN, ON Fell 'House.

Son OF EVERGREEN MARCH and Head of Registered Holsteins for as See ad. Feb. 5th.—MacLean Bri-Smiths Falls, Ont. AUCTION SALE

The Lakeview Stock Farm will offer t sale at their barns near Bronte, Ont., Monday, March 25th. 1912. Pure Bred H stein-Friesian Cattle and Registier (gydesdale Marcs. Col. D. L. Perry Columbus, Ohio, will conduct the sa which will be held under cover, rain.

hine. Send in your name for catalogu range to attend this sale. F. OSLER, BRONTE, 0

Summerdale Holstein

Eight Pure Bred Holstein Bulls Eight Pure gred Hoiston Builts From 4 to 13 months old. Most of the are from dams entered or qualified is korndyke Beryl Prince, being a grande of Pontlae Korndyke. Winchester. 0 Phone connection at Winchester.

YOUNG HOLSTEIN BULLS

FOR SALE Color nearly white, from heavy produc dams and sired by Francy Jrd's Cub ity De Kol, whose dun Francy Jrd's Cub 19, 16 ba. hutter in 7 days. Also 1912 bull colf bred on similar lin and a few pure bred Holstein cows a

grades. Apply J. H. CALDWELL. FALLOWFIELD. 0

**CREATEST VIEW HOLSTEIN HER** Offera hulls from 7 to 11 mos. old si hy Karl Joseith, son of Karl Bos, wi dam and grand dam have the largest ficially authentiosted records ever m in Houldered. high chives' dams are la in Houldered. high chives' dams are la or For description and price write

ARCHIBALD PARKS. NAPANEF. ON

**Clyde Stallion** 

Rising 3years old.

ly proportioned, best feet and legs, 16 to l

Write or come and

(Registered)

BROOKSIDE Herd headed be of 27.5 lb, aween cow, Guelph, 191) fers for sale a 24

**CLYDESDALE STALLION FOR SALE** 

Registered Canadian-bred Clydesdale Stallion, 4 years old. Nice field brown in color with white points. Sire Montrace :: :: Matchless ; dam, Queen of Roses. Apply :: ::

W. J. COX, Box 755 PETERBORO, ONT

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NELLES AND Y As advertised 1 Dairy, there will March 6th, by 1 tered Holsteins families of the t cial testing has records have bee feel confident thm a fair showing in good records won good records wor The herd is ma Countess Mary A

> Who ] Th

Why pay fa meals of for when you can 20 dollars a cure at least cases superior,



Has been mo mented with a tural College, excellent result on some of t equipped dairy minion.

Ask your dea of CALFINE ( soon be back dealer does not We will do the Feeding direc

CANADIAN MILLING TORONT



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you have for sale the which they buy from advertises?

Take the progressi-buyers for your live s and Dairy.

Your advertisement yon enly our low fiat Send in your advertis

FARM AND D

February 22, 1912.

mememement.

HOLSTEIN-FRIESIAN NEWS Farm and Dairy is the official organ of The Canadian Hoistein - Frienian Association, all of whose members are readers of the paper. Members of the Association are invited to send items of interest to Hoistein breeders for publication in this column.

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SALE DATES CLAIMED April 4, 1912; SALE DATES CLAIMED April 4, 1912; J. W. McCormick, More-ood, Ont., Holateins. March 6, 1912; Nolles and F. Woodley, oston, Ont., Holateins. March 26, 1912; S. Macklin, Weston, nacor

Joston, Ont., Holsteina. March 26, 1912: S. Macklin, Weston, Int., Holsteins, March 37-C. C. Kettle, Wilsonvälle, Int., Holsteins and Yorkshires. March 14, 1912: G. Forester, Gormley, Int., Holsteins.

March 27, 1912: C. C. Kettle, Wilson-ville, Ont., Holsteins and Yorkshires

(iii) 003. insertion and torphanics.
(NILLES AND WOODLEYS BOLSTINS: As advertised last week in Farm and Dairy, there will be sold on Wednesday, March 603, by public ascelan, 80 regis-families of the hreed. Athlough no offi-cial testing has been done, individual records have been keet yearly, and we feel confident that were these cows given a sold recepting and the mark some work. good records would be made

The herd is made up of such cows as Countess Mary Ann, with 42 lbs, of milk

Who Pavs The Duty? Why pay fancy prices for calf meals of foreign manufacture when you can buy CALFINE 15 to 20 dollars a ton cheaper and se-cure at least equal, and in most cases superior, results?

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Take the progressive, paying way of getting buyers for your live stock-Advertise in Farm and Dairy.

Your advertisement in these columas will cost yon enly our low fiat rate of 98 cants an inch. Send in your advertisoment to-day or next issue

FARM AND DAIRY PETERBORO

a day at 21 most of age, and 71 lbs. a may at two milkings hast season and over 1000 lbs. The season and over 1000 lbs. To 69 lbs. a day as a four-resolution to 69 lbs. a day as a four-resolution to 69 lbs. a Heast Imp., with a 1911 record of matter Heast Imp., with a 1911 record of the 1 lbs., and 11320 lbs. in 9 most, hav-ing dropped her second onli in 11 months from last freshening. A bull call from this cow is to be sold whose four near-ext dams average 64 lbs. milk in one day.

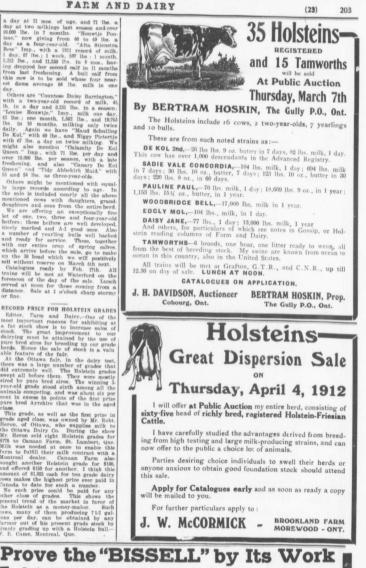
eef dams average pt its. milk in one day. are "Connteen Daise Barrington." Others are "Connteen Daise Barrington." In a two-readed record of milk, 45 b. in a day are started to the second "Journe House House," I'mo, milk second libs. in 0 month, Jd&B hand Schuling De Koll, with 60 lbs., and 10,700 the dist. Again we have "Moud Schuling De Koll," with 60 lbs., and Nigry Pietertie with 67 lbs. a day on twice milking. We with 67 lbs. be are solved by the Koll Oneen, "and Tidy Abbelth Kald," with 51 and 54 lbs. as three-year-olds. Others milth be mentioned with equal.

Others might be mentioned with equal-Others might be mentioned with equal-tion of the second second second second second mentioned cover with during the above dupthers and sons from the entire berd dupthers and sons from the entire berd dupthers the beilform are well developed. New are offering an exceptionally fine late of one, two, three and four-year-old hieffor: these beilform are well developed and ready for carrier built well backed and ready for carrier built well backed and ready for carrier built well backed up the 30 head which we will positively sell without reserve on March 6th next. Catalogues ready by Feb. 17th. All foremoon of these wells found served at noon for these wells found served at noon for these wells. Others might be mentioned with equal-

RECORD PRICE FOR HOLSTEIN GRADES

RECORD PRICE FOR HOLSTEIN GRADES Editor, Varm and Dairy.-One of the most important reasons for exhibiting at a fat sick show is to increase sales of diriving m great improvement to our pure bred sizes for bread by the use of pure bred sizes for bread by the use of pure bred sizes for bread by the the out-able feature of the fair. At the Ottawa fair, in the dairy test, there was a large number of grades that did extrusivel. The lotted a grades when by pure bred sizes for were mostly sized by pure bred sizes for were mostly sized by pure bred sizes for the first price out in access in points of the first price pure bred Arrahire that was in the aged tage.

pure bred Arrshire that was in the aged chase. This grade, as well as the first prize in grade aged diss, was owned by Mr. Rott, the Ottawa Dairy Co. During mills to the Ottawa Dairy Co. During mills to the Ottawa Dairy Co. During the optimistic transformer of the Ottawa Dairy Co. Wills was needed at once to enable this Montreal dealer. mills contrast with a Montreal dealer. This shows the general trade by the optimist of the optimist amount of 8126 seaks for tange for 8160, and offered 8139 for another. I think this amount of 8126 seaks for tange for 8160, and offered 8139 for another. I think this amount of 8126 seaks for the grade for 9160. No such price could be paid for any other class of grades. This shows the general trade of the market in favor of the Holstein as a money-maker. Such hows per day, can be obtained by any farmer out of his present grade steck by aimoly grading up with a Holstein bull-F. E. Came, Montreal, Que.



Do the gangs on your Harrow crowd together and raise out of the ground if it is hard? They won't do this on the "Bissell." The "Bissell" is so designed that THE GANOS CAN'T CROWD OR BUMP together no matter how hard the ground may be. Tough soil won't stick the "Bissell" it stays right down to its work and pulverizes the ground thoroughly. Do the gangs on your Harrow

thoroughly. We ask you to take a "Bissell" out into the field and test it be-side other Harrows. Then you

will HAVE PROOF that it is A SUCCESS ON HARD LAND-THAT IT PULVERIZES THE BEST-and that it is the lightest draught.

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